

# JBL Professional



JBL is the largest brand within Harman International Industries Incorporated. JBL's factory is part of the Harman International Business Campus, located in Northridge in the San Fernando Valley of Los Angeles. The 44 acre site comprises the operations of JBL Professional, along with Harman Corporate Engineering activities and other corporate functions.

JBL Professional's transducers are engineered and fabricated at the Northridge facility, where machining, diaphragm forming, wire milling, voice coil winding, finishing, assembly and testing are carried out by dedicated, quality-oriented personnel.

JBL Professional loudspeaker enclosures are constructed from components produced in JBL's extensive wood mill. Automated equipment is used extensively for uniformity and efficiency. Innovative techniques in enclosure materials, construction and assembly methods are employed.

JBL Professional has the most rigorous standards for system power rating in the professional loudspeaker industry. Power testing of transducers is an ongoing activity at JBL Professional. Samples from all production lots are tested at full rated power to industry standards to ensure that they meet the rigid performance specifications set for them. This is the professional customer's assurance that JBL loudspeakers will continue to perform as expected in the most rigorous professional applications.



## THE JBL STORY: 60 YEARS OF AUDIO INNOVATION

Celebrating sixty years of success in the speaker industry, this book offers details on the people and products that have made JBL famous. It features full-color photos, historical advertisements, and hundreds of diagrams and images, many taken right from JBL's archives. Topics include stories behind the development of innovative applications for consumer products, as well as systems installations for stadiums, tour sound, movie theaters, recording studios, and places of worship. In addition to the technical info that explains the innovation, this book covers the brilliant engineers, and colorful record producers, musicians and technicians who had the vision to pursue a "better way." Available at bookstores and on line.

# Installation Products

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PROFESSIONAL



Stade de Suisse Wankdorf, Bern, Switzerland



FedEx Forum, Memphis, Tennessee

No matter where you go in this world, you'll find JBL Installed Sound Speaker Systems at many of the most notable venues.

With that kind of global perspective, JBL has come to respect the one indisputable truth of business: every customer is unique. A speaker system that is perfectly right for one job might be perfectly wrong for another. That's why JBL Installed Sound products offer a range of options without equal. From the extraordinary value of the Control Contractor Series to the ultimate precision of the JBL Precision Directivity Series, there's a JBL Installed Sound product with a solid business solution based on equally solid business savvy.

For more than 60 years, JBL has been the professional speaker of choice wherever sound matters. We'd like to believe it should be your choice, too.

# Control® Series

## key features

▶ MOLDED ENCLOSURES WITH SHIELDED MAGNETIC STRUCTURES

▶ HIGH SENSITIVITY AND POWER HANDLING CAPABILITY



The JBL Control Series speakers offer high performance in a variety of applications. Well balanced sound and exceptional power handling make these speakers ideal for any installation requiring professional control monitor performance from a compact source.

### CONTROL® 1 PRO

The **Control 1 Pro** is the next generation high-performance compact loudspeaker system incorporating the latest innovations in JBL Professional loudspeaker systems design. Monitor-grade, magnetically shielded transducers, a professional crossover network and full-range SonicGuard™ overload protection combine for a loudspeaker system that is perfect for a wide variety of critical near-field audio applications, audio-visual applications, computer workstations, recording and broadcast studios, mobile audio-video control rooms and foreground and background music. Includes wall-mounting brackets.

### CONTROL 5™

The **Control 5** is a high-performance, wide range control monitor suitable for use as the primary sound source in a variety of applications. The 165 mm (6 1/2 in) low-frequency driver and 25 mm (1 in) pure titanium dome tweeter are magnetically shielded for use in close proximity to video monitors.

### CONTROL SERIES MOUNTING ACCESSORIES

Control Series enclosures are designed for applications in which minimal space, tight corners and tough angles are all too common. Specialized mounting systems allow positioning of enclosures in exactly the right space for optimum performance.

## specifications

	CONTROL 1 PRO	CONTROL 5
FREQUENCY RESPONSE	100 Hz - 18 kHz (± 3 dB)	75 Hz - 20 kHz (± 3 dB)
POWER CAPACITY <sup>1</sup>	150 W	175 W
SENSITIVITY: 1 W, 1 m	87 dB SPL	89 dB SPL
NOMINAL IMPEDANCE	4 ohms	4 ohms
COMPONENTS: LF	135 mm (5 3/4 in)	165 mm (6 1/2 in)
HF	19 mm (3/4 in)	25 mm (1 in)
ENCLOSURE	Polypropylene structural foam	Polypropylene structural foam
FINISH	Black (C1Pro) or white (C1Pro-WH)	Black or white (-WH)
DIMENSIONS (H x W x D)	235 x 159 x 143 mm	387 x 251 x 229 mm
NET WEIGHT (each)	1.8 kg (4 lb)	4.5 kg (10 lb)

<sup>1</sup> IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB.

### OPTIONAL MOUNTING ACCESSORIES



MTC-8



MTC-51



MTC-52

CONTROL 1 PRO

CONTROL 5



# Control<sup>®</sup> Contractor

## Ceiling Speakers

### key features

- ▶ ALL-IN-ONE CONVENIENCE FOR FAST INSTALLATION AND EASY STOCKING
- ▶ AGENCY APPROVED FOR USE IN AIR HANDLING SPACES
- ▶ PREMIUM PERFORMANCE
- ▶ SONICGUARD™ OVERLOAD PROTECTION

JBL Control Contractor Ceiling Speakers deliver high power handling, overload protection and exceptional sound level capability and are packaged as complete assemblies, including integral backcan, front grille and tile bridge support hardware. Innovative design features such as titanium-coated tweeters and JBL's unique diffraction-horn loading provide broad, even coverage throughout the listening area.

Installation of JBL Control Contractor Ceiling Speakers is quick and easy and can be accomplished without requiring access above the ceiling. Bracketry for suspended ceilings is included. The speaker is held securely in place via mounting ears which rotate into position and lock into place. Inputs are attached to a removable locking connector (included) which can be prewired before installing for ultra-fast snap-on installation. All models (except 26-DT) contain formed steel backcans and are suitable for use in air handling spaces per UL1480. Control 24CT Micro, 24CT MicroPlus, 24CT, 26CT and 19CST feature top quality transformers pre-installed inside the speaker assembly for use on 70V/100V distributed lines. Tap selection is conveniently located on the front of the speaker (except Micro).



24C/CT MICRO and 24CT MICROPLUS

### CONTROL 24C/CT MICRO AND CONTROL 24CT MICROPLUS

The Control 24C/CT Micro and Control 24CT MicroPlus are compact, easy-to-install in-ceiling speakers, providing full, high quality sound for background music and music-plus-paging systems. The Control 24CT Micro and Control 24CT MicroPlus both include multi-tap transformers.

### CONTROL 24C/CT AND CONTROL 26C/CT

The Control 24C contains a coaxially mounted 4" woofer and 3/4" titanium-coated tweeter, providing high-fidelity sound over a wide coverage area. The Control 24CT available in black (C24CT-BK). The Control 26C is a powerhouse ceiling speaker containing a coaxially mounted 6 1/2" woofer and 3/4" titanium-coated tweeter, able to deliver maximum sound level over a defined area.

### CONTROL 26-DT

The Control 26-DT is an 8" driver assembly designed for sound systems requiring a higher fidelity sound and easy installation into standard backcans.



26-DT

A high quality, low insertion-loss transformer is supplied for use on 70V/100V distributed lines.

### CONTROL 19CS/CST

The unique Nested-Chamber design and Linear Dynamic™ port of the JBL Control 19CS subwoofer allows powerful low-frequency reinforcement from a compact in-ceiling enclosure. The Control 19CS is an ideal addition to any system, resulting in full-fidelity, high level sound. The optional Control 19CST has a special subwoofer-band transformer for use on 70V or 100V line distribution systems.

### ACCESSORIES

New Construction Bracket: **MTC-xxNC\***  
Plaster Ring Bracket: **MTC-xxMR\***

**Trim Rings:** Allow for installation into existing ceiling speaker cutouts that are larger than the speaker's normal cutout size. **MTC-xxTR\***.

\* These models are available in different sizes. Specify speaker model when ordering.



24C/CT

26C/CT

19CS/CST

## specifications

	24C/CT MICRO 24CT MICROPLUS	24C/CT	26C/CT	26-DT	19CS/CST
FREQUENCY RANGE (-10dB) <sup>1</sup>	85 Hz - 25 kHz	80 Hz - 20 kHz	75 Hz - 20 kHz	70 Hz - 20 kHz	42 Hz - 200 Hz
POWER CAPACITY: PROGRAM <sup>2</sup> PINK <sup>3</sup>	30 W 15 W	80 W 40 W	150 W 75 W		200 W 100 W
NOMINAL DISPERSION	150° conical	130° conical	110° conical	90°	Omnidirectional
NOMINAL SENSITIVITY 1 W, 1 m	86 dB	86 dB	89 dB	89 dB (60 W tap)	95 dB (ceiling, near corner) 89 dB (center of ceiling)
NOMINAL IMPEDANCE	8 ohms (24C Micro)	16 ohms (24C)	16 ohms (26C)		8 ohms (19CS)
TRANSFORMER TAPS: 100V	8, 4, 2, 1 W (24CT Micro) 25, 12 W (24CT MicroPlus)	30, 15, 7.5 W (24CT)	60, 30, 15 W (26CT)	60, 30, 15 W	60, 30, 15 W (19CST)
70.7 V	8, 4, 2, 1, .5 W (24CT Micro) 25, 12, 6 W (24CT MicroPlus)	30, 15, 7.5, 3.7 W (24CT)	60, 30, 15, 7.5 W (26CT)	60, 30, 15, 7.5 W	60, 30, 15, 7.5 W (19CST)
COMPONENTS: LOW FREQ.	4 1/2 in (115 mm)	4 in (100 mm)	6 1/2 in (165 mm)	6 1/2 in (165 mm) *	8 in (200 mm)
HIGH FREQ.	1/2 in (12 mm)	3/4 in (19 mm)	3/4 in (19 mm)	3/4 in (19 mm)	
ENCLOSURE	Formed steel backcan	Formed steel backcan	Formed steel backcan		Formed steel backcan
DIMENSIONS (H x DIA.)	106 x 195 mm 4.2 x 7.7 in	200 x 195 mm 7.9 x 7.7 in	210 x 252 mm 8.3 x 9.9 in	120 x 200 mm 4.72 x 7.87 in	345 x 345 mm 13.6 x 13.6 in
NET WEIGHT (each)	24C Micro: 1.6 kg (3.6 lb) 24CT Micro: 2.0 kg (4.4 lb) 24CT MicroPlus: 2.5 kg (5.5 lb)	24C: 2.7 kg (6 lb) 24CT: 3.5 kg (8 lb)	26C: 3.4 kg (7.5 lb) 26CT: 4.2 kg (10 lb)	1.9 kg (4.2 lb)	19CS: 5.5 kg (12 lb) 19CST: 6.3 kg (14 lb)
See footnotes on facing page.				* 8" compatible mounting	

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## In-Wall Speakers

## key features

- ▶ MINIMAL VISUAL IMPACT
- ▶ HIGH POWER HANDLING CAPABILITY
- ▶ EASY TO INSTALL IN STANDARD STUD-WALL CONSTRUCTION
- ▶ 70V/100V VERSIONS AVAILABLE



126W/WT

128W/WT

JBL Control 126W/WT and 128W/WT are premium in-wall speakers designed for applications where top performance from a loudspeaker with minimal visual impact is required. The Control 100 Series speakers are voiced similarly to other JBL Control Contractor models, allowing mixing with surface-mount and in-ceiling speakers within a single listening space. The premium sound quality makes these loudspeakers ideal for critical listening environments, yet they are high power and rugged enough to handle venues requiring high-SPL, heavy duty-cycle music.

**CONTROL 126 W/WT and CONTROL 128W/WT**

The **Control 126 W** and **Control 128 W** feature high performance woofers with a polymer coated aluminum cone, pure butyl rubber surround for long life and high reliability, and extended polepiece magnet design for long excursion and high reliability. The pure titanium dome high frequency driver is loaded with a built-in EOS™ (Elliptical Oblate Spheroidal) waveguide for low distortion and a smooth frequency response. A low-diffraction swivel mounting system enables the user to direct high frequencies where required without the diffraction distortion inherent in other aimable tweeter designs. A high-slope crossover network maintains natural midrange sound and produces more even coverage throughout the listening area.

The speakers fit into the wall space of ordinary stud-wall construction. An optional rough-in frame is available for installing the speakers into standard stud walls in new construction projects. As is the case with all Control Contractor speakers, the baffles and grilles are paintable to match any décor.

The optional Control 126WT and Control 128WT include 70V/100V transformers for use on distributed loudspeaker lines.



## specifications

	CONTROL 126W/WT	CONTROL 128W/WT
FREQUENCY RANGE (-10 dB) <sup>1</sup>	38 Hz - 20 kHz	30 Hz - 20 kHz
POWER CAPACITY: PROGRAM <sup>2</sup>	100 W	120 W
PINK <sup>2</sup>	50 W	60 W
SENSITIVITY: 1 W, 1 m	88 dB SPL	90 dB SPL
NOMINAL IMPEDANCE	8 ohms	8 ohms
TRANSFORMER TAPS: 100V	30, 15, 7.5 W (126WT)	50, 25, 12 W (128WT)
70.7 V	30, 15, 7.5, 3.7 W (126WT)	50, 25, 12, 6 W (128WT)
COMPONENTS: LOW FREQ.	6 1/2 in (165 mm)	8 in (200 mm)
HIGH FREQ.	1 in (25 mm)	1 (25 mm)
TERMINATION	Screw-down Euroblock type	Screw-down Euroblock type
OPTIMUM AIR CAVITY BEHIND SPEAKER	20 -40 liters (0.7 to 1.4 cu. ft.)	40 -80 liters (1.4 to 2.8 cu. ft.)
ROUGH-IN FRAME	MTC-126RIF	MTC-128RIF
DIMENSIONS (H x W x D)	280 x 215 x 105 mm 11 x 8.5 x 4.1 in	334 x 257 x 110 mm 13.1 x 10.1 x 4.3 in
NET WEIGHT (each)	126W: 2.1 kg (4.5 lb) 126WT: 2.7 kg (5.9 lb)	128W: 2.6 kg (5.5 lb) 128WT: 3.3 kg (7.2 lb)

<sup>1</sup> Half-space (mounted in-wall or in ceiling)

<sup>2</sup> Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).

<sup>3</sup> Rated in Continuous Pink Noise for 100 hours.

# Control® Contractor

## Surface-Mount Speakers

The Control Contractor Surface speakers are compact systems with rugged, molded high impact polystyrene shells. Designed for wide-ranging indoor and outdoor (except SB-2) applications, the Control Contractor Series offers versatility, ease-of-installation and paintability. JBL's Invisiball® mounting technology revolutionizes ease-of-installation with built-in hardware easily secured with a standard hex wrench from a front channel. Mounting bracket is included.

### CONTROL 23/CONTROL 23T

The most compact of the JBL Control Contractor Series speakers, **the Control 23**, has a 3 1/2" woofer and horn-loaded titanium-coated tweeter ideal for mid/high operation in limited space environments. This system delivers crisp, articulate sonic quality. The optional Control 23T has a pre-installed transformer for line distribution systems. Augmenting the bass with a JBL subwoofer results in an extremely full-fidelity system.

### CONTROL 25/CONTROL 25T

**The Control 25** incorporates a 5 1/4" low frequency loudspeaker with a horn-loaded 1" titanium-coated tweeter. Its full-range frequency response makes it an excellent choice for moderately large venues, providing superior dynamic performance and a smooth roll-off down to 80 Hz. The optional Control 25T includes a multitap transformer for line distribution systems.

### CONTROL 25AV

**The Control 25AV** is an especially wide bandwidth, smooth response speaker. It is magnetically shielded for use in close proximity to video monitors. It features a top-quality 60 W multitap transformer for 70V/100V line distribution systems. The transformer may be bypassed allowing the Control 25AV to be used as an 8 ohm impedance speaker. Stainless steel grille and MTC-PC2 panel cover included for additional weather resistance.

### CONTROL 28/CONTROL 28T-60

**The Control 28** offers high power, performance, bandwidth and sensitivity in a compact, full-range speaker. Incorporating an 8" low-frequency woofer and 1" titanium-coated tweeter, the Control 28 provides vivid sound reproduction for large-space applications. The optional Control 28T-60 contains a multitap transformer for 70V/100V line distribution systems.

### CONTROL 29AV-1

**The Control 29AV-1** utilizes high power components, computer optimized horn and cabinet design, and complex network to achieve smooth high fidelity performance, extended bandwidth and well-controlled defined coverage from a compact loudspeaker. A rotatable 110° x 85° high-frequency horn allows use of the speaker in either vertical or horizontal orientation. Smooth frequency response and even coverage ensures excellent sound character throughout the listening area. Contains 10 inserts for suspending. Optional MTC-29UB U-bracket available.

### CONTROL 30

**The Control 30** is a three-way high output speaker designed for multiple uses. Weather resistance has been maximized, making the Control 30 suitable for outdoor applications. It features a top-quality 150 W multitap transformer for 70V/100V line distribution systems with a bypass for use as an 8 ohm speaker.

### CONTROL SB-2

**The SB-2** features a hybrid load-baffle/bandpass design for musical clarity. This single speaker functions as the subwoofer section of left/right music systems, preserving the stereo separation. The dual voice coil 10" bass transducer has been optimized to complement four Control 23 as satellite speakers. (Not outdoor capable.)

### CONTROL SB210

**The Control SB210** subwoofer contains two high power 10" woofers suitable for a variety of applications both indoors and out. Its compact size, durable enclosure, insert points, and stacking options make it one of the most versatile subwoofers in the installation market. Optional input modules are available to provide passive subwoofer/satellite crossover (MTC-210-SAT), 70V/100V subwoofer-band transformer (MTC-210T) or both (MTC-210T-SAT) for use with low impedance satellite speakers.

### ACCESSORIES

**MTC-PC2:** The MTC-PC2 Panel Cover provides sealed entrance protection for input terminals and strain relief for incoming speaker wire.

**MTC-xxSSG and MTC-xxWMG:** SSG stainless steel retrofit grilles for Control 23, 25, and 28. WMG WeatherMax™ grilles add a foam and tight-weave backing to break up driving rain.

### MOUNTING BRACKETS



MTC-xxUB U-BRACKET



MTC-xxH\* HORIZONTAL ARRAY BRACKETS



MTC-xxV\* VERTICAL ARRAY BRACKETS



MTC-xxCM\* CEILING BRACKETS



SB-2 BRACKETS

**MTC-xxUB:** U-brackets for installing Control 29AV, 30 and SB210. Available in black or white.

**MTC-xxH\* Horizontal Array Brackets:** Allows horizontal arraying of two Control 23, 25 or 28 speakers with splay angles of 60°. MTC-H brackets can be interconnected to form a suspended ring for mounting 6 speakers or 3 speakers in a 360° cluster



3) MTC-xxH\* AS CLUSTER MODULE BRACKET (SHOWN PARTIAL)

**MTC-xxV\* Vertical Array Brackets:** Allows vertical end-to-end arraying of up to three Control 23, 25, or 28 speakers in a tight attractive column.

**MTC-xxCM\* Ceiling Brackets:** The curved arm allows installation of Control 23, 25, 28, 29AV or 30 speakers down from a ceiling.

**SB-2 Installation Brackets:** The MTC-SB2W wall/corner bracket allows mounting of the subwoofer onto a wall surface or into a corner. The MTC-SB2C ceiling bracket enables suspension of the SB-2 from above, projecting downward into the listening area.

Various adaptors for installing via threaded pipe or rod available from third party. Contact JBL for information.

\* These models are available in different sizes. Specify speaker model when ordering.



CONTROL SB-2

CONTROL SB210



CONTROL CONTRACTOR SERIES

# key features

- ▶ INVISIBALL® MOUNTING TECHNOLOGY
- ▶ WEATHEREDGE™ FOR MOISTURE PROTECTION
- ▶ OPTIONAL FACTORY INSTALLED TRANSFORMERS
- ▶ PAINTABLE TEXTURED HIPS ENCLOSURES
- ▶ SELECTION OF VERSATILE MOUNTING HARDWARE



CONTROL 29AV-1



CONTROL 28/28T-60



CONTROL 25AV



CONTROL 25/25T



CONTROL 23/23T



CONTROL 30-WH

All models available in black or white (-WH).

## specifications

	CONTROL 23/23T	CONTROL 25/25T	CONTROL 25AV
FREQUENCY RANGE (-10 dB) <sup>1</sup>	85 Hz - 22 kHz (23) 100 Hz - 21 kHz (23T)	80 Hz - 16 kHz (25) 80 Hz - 15 kHz (25T)	70 Hz - 23 kHz
POWER CAPACITY: PROGRAM <sup>2</sup> PINK <sup>3</sup>	50 W (23) 25 W (23)	150 W (25) 75 W (25)	200 W 100 W
NOMINAL COVERAGE	90° x 90°	90° x 90°	100° x 100°
SENSITIVITY: 1 W, 1 m	86 dB SPL (23)	88 dB SPL (25)	87 dB SPL
NOMINAL IMPEDANCE	8 ohms (23)	8 ohms (25)	8 ohms
COMPONENTS: LOW FREQ. HIGH FREQ.	3 1/2 in (88 mm) 1/2 in (13 mm)	5 1/4 in (135 mm) 3/4 in (19 mm)	5 1/4 in (130 mm) 3/4 in (20 mm)
TRANSFORMER TAPS: 100V 70.7V	10 W (23T) 5 W (23T)	30, 15, 7.5 W (25T) 30, 15, 7.5, 3.7 W (25T)	60, 30, 15 W 60, 30, 15, 7.5 W
ENCLOSURE	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)
FINISH	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)
DIMENSIONS (H x W x D)	193 x 140 x 111 mm 7.6 x 5.5 x 4.4 in	236 x 188 x 149 mm 9.3 x 7.4 x 5.8 in	236 x 186 x 159 mm 9.3 x 7.4 x 6.3 in
NET WEIGHT (each)	1.8 kg (4 lb) (23) 2.2 kg (5 lb) (23T)	1.8 kg (5 lb) (25) 3.6 kg (8 lb) (25T)	4.0 kg (9 lb)



A JBL Control SB-210 subwoofer with MTC-210-SAT crossover and two Control 29AV-1 speakers forms a full-range subwoofer/satellite system capable of outstanding musical impact.

<sup>1</sup>Half-space (on wall).

<sup>2</sup>Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).

<sup>3</sup>Continuous Pink Noise for 100 hours.

	CONTROL 28/28T-60	CONTROL 29AV-1	CONTROL 30	CONTROL SB-2	CONTROL SB210
FREQUENCY RANGE (-10 dB) <sup>1</sup>	60 Hz - 16 kHz (28) 55 Hz - 15 kHz (28T-60)	37 Hz - 18 kHz	38 Hz - 17 kHz	38 Hz - 160 Hz	42 Hz - 200 Hz
POWER CAPACITY: PROGRAM <sup>2</sup> PINK <sup>3</sup>	175 W (28) 87 W (28)	300 W 150 W	500 W 250 W	340 W (both inputs) 170 W (both inputs)	800 W 400 W
NOMINAL COVERAGE	90° x 90°	110° x 85° (rotatable)	120° x 110°	N/A	N/A
SENSITIVITY: 1 W, 1 m	92 dB SPL (28)	90 dB SPL	93 dB SPL	94 dB SPL (on wall) 102 dB SPL (near corner)	96 dB SPL (on wall) 102 dB SPL (near corner)
NOMINAL IMPEDANCE	8 ohms (28)	8 ohms	4 ohms	8 ohms per input	8 ohms
COMPONENTS: LOW FREQ. MID FREQ. HIGH FREQ.	8 in (200 mm)	8 in (200 mm)	10 in (250 mm) 5 in (125 mm)	10 in (250 mm) long-throw with dual voice coils	2 x 10 in (250 mm)
TRANSFORMER TAPS: 100V 70.7V	60, 30, 15 W (28T-60) 60, 30, 15, 7.5 W (28T-60)	110, 55, 28 W 110, 55, 28, 14 W	150, 75, 38 W 150, 75, 38, 19 W		
ENCLOSURE	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	Particle Board	HIPS (High Impact Polystyrene)
FINISH	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)	Black	Black or white (-WH)
DIMENSIONS (H x W x D)	380 x 280 x 220 mm 15.0 x 11.0 x 8.6 in	520 x 306 x 277 mm 20.5 x 12.0 x 10.9 in	593 x 372 x 345 mm 23.3 x 14.6 x 13.5 in	394 x 585 x 343 mm 15.5 x 23.0 x 13.5 in	335 x 590 x 570 mm 14 x 23.3 x 22.5 in
NET WEIGHT (each)	5.5 kg (12 lb) (28) 6.3 kg (14 lb) (28T-60)	12.2 kg (27 lb)	18.9 kg (42 lb)	19.1 kg (42 lb)	17.1 kg (38 lb)

# Control® 200 Series Premium Medium-Format Ceiling Speakers

## key features

- 6.5" KEVLAR-REINFORCED LF
- 1" EXIT COMPRESSION DRIVER HF
- INTEGRATED & INDEPENDENT BACKCAN VERSIONS
- HIGH OUTPUT, PREMIUM SOUND QUALITY

**CONTROL 227C & 227CT Assembly with Backcan and Grille.**



Control 226C/T, 227C and 227CT are premium in-ceiling speakers designed to meet the increasing market demand for premium quality sound in ceiling-mount applications. The Control 200 Series loudspeakers incorporate breakthrough performance features such as best-in-class pattern control to provides a consistent sound throughout the listening area. Especially wide coverage allows fewer speakers to cover the space, reducing both the material and labor cost for the installation.

Handy, clip-in connections further reduce installation time, and the premium backcan for Control 227C & 227CT gives the performance of a top-quality wood cabinet in a metal ceiling-can form factor. The high-power kevlar-reinforced 6.5 in (165 mm) low-frequency driver along with the titanium-diaphragm compression driver and the advanced-technology steep-slope crossover network provide superb, wide-bandwidth sound quality.

### CONTROL 226C/T

**Control 226C/T** is a compact, easy-to-install speaker with integrated backcan for blind-mounting into ceilings. It features a top-quality 60 W multi-tap transformer for 70V/100V line distribution systems. The transformer may be bypassed, allowing the Control 226C/T to be used as a low-impedance 8 ohm speaker.

C-ring, tile rails and grille are included. This model is designed to be able to utilize the optional MTC-19NC new construction ring and MTC-19MR plaster-ring for new construction projects requiring pre-installation rings.

### CONTROL 227C

**Control 227C** is a high-output, low-impedance 8 ohm speaker assembly for installation with the separate MTC-200BB8 backcan and MTC-RG6/8 grille (both sold separately). Optional accessories include MTC-19NC new construction ring, MTC-19MR plaster-ring, and MTC-TB6/8 tile bridge.

### CONTROL 227CT

**Control 227CT** is a 70V/100V version of Control 227C, featuring a top-quality 60 W multi-tap transformer for 70V/100V line distribution systems.

### PREMIUM ACCESSORIES

**MTC-200BB6:** Backcan for Control 227C and 227CT. Reinforced with 1/2 in (12 mm) MDF wood on back panel, this metal backcan provides the sound quality of a top wood enclosure. 13.3 inches (337 mm) max diameter x 8.5 inches (216 mm) deep.

**MTC-RG6/8:** Round grille for Control 227C and 227CT. Also fits Control 328C & 328CT. 13.6 inches (345 mm) in diameter

**MTC-TB6/8:** Tile bridge for Control 227C and 227CT. Also fits Control 328C & 328CT.

**MTC-19NC & MTC-19MR:** New-construction and mud rings fit Control 226 for new construction applications requiring pre-installation rings.

## specifications

	CONTROL 226C/T	CONTROL 227C & 227CT
FREQUENCY RANGE (-10 dB) <sup>1</sup>	47 Hz – 19 kHz	43 Hz – 19 kHz
POWER CAPACITY: PROGRAM	300 W	300 W
PINK (2 hr) <sup>2</sup>	150 W	150 W
(100 hr) <sup>2</sup>	100 W	100 W
SENSITIVITY: 1 W, 1 m	90 dB	90 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms (227C)
NOMINAL COVERAGE <sup>3</sup>	120°	120°
COMPONENTS: LOW FREQ.	6.5 in (165 mm)	6.5 in (165 mm)
HIGH FREQ.	1 in (25 mm)	1 in (25 mm)
TRANSFORMER TAPS: 100V	60W, 30W, 15W	60W, 30W, 15W (227CT)
70.7V	60W, 30W, 15W, 7.5W	60W, 30W, 15W, 7.5W (227CT)
DIMENSIONS (DIA. X DEPTH)	13 x 9.7 in (330 x 246 mm)	12.0 x 5.8 in (305 x 147 mm)
NET WEIGHT (each)	9.1 kg (20 lb)	4.1 kg (9 lb) 227C 5.2 kg (11.5 lb) 227CT

<sup>1</sup> Half-space (in ceiling)

<sup>2</sup> IEC standard, full bandwidth pink noise with a crest factor (peak to average ratio) of 6 dB.

<sup>3</sup> Average 1 kHz to 16 kHz.



**CONTROL 226C/T**

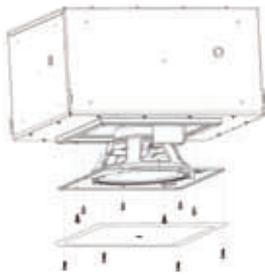
Control 200 models are available both in an independent backcan design (Control 227C & 227CT) and in an integrated backcan version (Control 226C/T).

# Control® 300 Series

## Large Format In-Ceiling Loudspeakers

### key features

- ▶ HIGH FIDELITY PERFORMANCE
- ▶ EASY TO DESIGN AND INSTALL
- ▶ PRECISION COVERAGE
- ▶ PREMIUM ACCESSORIES



Control 300 Series represents the state of the art in large-format ceiling loudspeaker systems. True point-source coax designs, multiple power levels and transformer choices, plus an in-ceiling subwoofer, make it easy to fulfill any architectural, aesthetic and system performance requirements. Premium components include Kevlar-reinforced cones, low-saturation transformers and legendary JBL compression drivers. Advanced high-slope crossover networks, combined with low system distortion and smooth frequency response provides full, natural music along with exceptional speech intelligibility.

In these Control 300 coax models, the throat and cone combine to form a Constant Coverage waveguide which provides extraordinary broadband control, ensuring even coverage and consistent sound throughout the listening space. And

Control 328 goes a step further with a 12" diameter waveguide, providing the pattern control of a 12" horn from an 8" driver. The EZ-Rail™ feature (on 12" models) provides a "helping hand" to hold one side of the loudspeaker in place while fastening it to a pre-installed back box. A multi-pin locking connector allows for easy pre-wiring and quick clip-in during installation.

**ACCESSORIES:** Premium accessories include best-in-class back boxes made of heavy 16 gauge metal and lined with 1/2" MDF, as well as contemporary grilles and an optional higher power transformer. Accessories include:

	MTC-300BB8	MTC-300BB12	MTC-RG6/8	MTC-300SG12	MTC-TB6/8	MTC-300T150
DESCRIPTION	Premium 1 cu ft (28 cu l) Cylindrical Backbox	Premium 3 cu ft (28 cu l) Rectangular Backbox	Round Grille for 6 in (152 mm) and 8 in (200 mm) systems	Square Grille for 12 in (300 mm) systems	Tile bridge for 6 in (152 mm) and 8 in (200 mm) system	150 W Accessory Transformer
FITS:	Control 328C/CT	Control 321C/CT, 322C/CT and 312CS	Control 227C/CT and 328C/CT	Control 321C/CT, 322C/CT and 312CS	Control 27C/CT and 328C/CT	
DIMENSIONS:	15 dia x 10.6 in deep (380 x 270 mm)	23.1 x 18.2 x 12.6 in (587 x 461 x 324 mm)	13.6 in dia x 0.64 in deep (345 x 16.3 mm)	16.3 x 16.3 x 0.4 in deep (415 x 415 x 10 mm)	25.4 x 16.25 in (646 x 413 mm)	3.4 x 3.4 x 3.1 in (86 x 86 x 78 mm)

### specifications

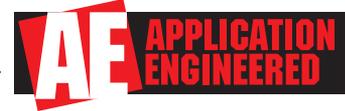
	Control 328C/CT	Control 321C/CT	Control 322 C/CT	Control 312CS
SYSTEM TYPE	8" Coaxial Ceiling Loudspeaker with HF Compression Driver	12" Coaxial Ceiling Loudspeaker with HF Compression Driver	High-output 12" Coaxial Ceiling Loudspeaker	12" In-Ceiling Subwoofer Loudspeaker
FREQUENCY RANGE (-10 dB) <sup>1</sup>	45 Hz – 18 kHz	34 Hz – 18 kHz	32 Hz – 20 kHz	30 Hz – 4.5 kHz
POWER CAPACITY: PROGRAM <sup>2</sup>	500 W	500 W	800 W	800 W
PINK <sup>3</sup>	250 W	250 W	400 W	400 W
NOMINAL COVERAGE	120° conical	90° conical	90° conical	93 dB
SENSITIVITY: 1W, 1m	93 dB	94 dB	95 dB	8 ohms
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms	n/a
TRANSFORMER TAPS: 100V	60, 30 15 W	60, 30 15 W	100, 50, 25 W	n/a
70V	60, 30, 15, 7.5 W	60, 30, 15, 7.5 W	100, 50, 25, 12.5 W	n/a
COMPONENTS: LF	8 in (200 mm)	12 in (300 mm)	12 in (300 mm)	12 in (300 mm)
HF	1" diaphragm compression driver	1" diaphragm compression driver	1.5" diaphragm compression driver	
TERMINATION	Screw-down removable locking connector	Screw-down removable locking connector	Screw-down removable locking connector	Screw-down removable locking connector
DIMENSIONS (W)	12 in (305 mm) diameter round baffle	14.4 x 14.4 in (366 x 366 mm) square baffle	14.4 x 14.4 in (366 x 366) square baffle	14.4 x 14.4 in (366 x 366 mm) square baffle
(D)	6.3 in (160 mm) for C328C	8.8 in (223 mm) for C321C	8.8 in (223 mm) for C322C	5.8 in (147 mm)
	8.6 in (218 mm) for C328CT	9.5 in (240 mm) for C321CT	9.5 in (240 mm) for C322CT	
NET WEIGHT (each)	4.5 kg (10 lb) for C328C	7.3 kg (16 lb) for C321C	9.1 kg (20 lb) for C322C	
	5.4 kg (12 lb) for C328CT	8.2 kg (18 lb) for C321CT	10.0 kg (22 lb) for C322CT	

<sup>1</sup> IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB

<sup>2</sup> Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor).

<sup>3</sup> Continuous Pink Noise for 2 hours.

# Application Engineered™ Series



AE Series loudspeakers are ideal for a wide variety of fixed installation applications including performing arts facilities, theatrical sound design, auditoriums, houses of worship, live music clubs, dance-clubs/discotheques, sports facilities and themed entertainment venues. The special mid-high frequency models can be used without LF reinforcement in voice-only PA and delay-fill applications. The smaller models are ideal in lecture halls and corporate learning centers as well as in delay-fill locations of larger systems.

## Scaled System Design Approach

AE Series models provide a wide variety of building blocks for your system design, stair-stepped to give you just the right solution for your installation.

**6000-Series** models are the highest power speakers in the AE Series. **4000-Series** models are medium power and **2000-Series** are at lower power points for applications not requiring high power capability.

## Waveguide Scaling

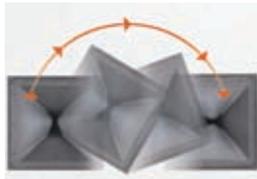
Sometimes you need maximum pattern control. Other times the speaker needs to be as compact as possible. [AM] models are performance-maximized for the greatest pattern control. [AC] models are compact speakers that fit in areas where a smaller frontal profile is required.

## Selectable Crossover Mode

Many AE Series speakers offer selectable crossover modes: tri-amp/bi-amp or bi-amp/passive switchable.

## Sophisticated Crossover Networks

AE Series models incorporate sophisticated crossover designs for outstanding sound quality and consistent coverage. To minimize overlap between adjacent frequency bands, steep slopes are utilized in passive crossovers — most are 4th order (24 dB/octave). This reduces off-axis lobing, providing consistent coverage throughout the crossover region. Conjugate networks are added in some models to fine tune the frequency response for optimum sound quality.



## Rotatable Waveguides

The space often dictates how a speaker needs to be oriented. All [AM] two-way and

three-way models include a rotatable waveguide, allowing the speaker to be installed in either vertical or horizontal orientation.

## Versatile Model Options

All AE Series speakers are available in several versions for matching décor or for outdoor use. Any model can be finished in white (-WH) or left unfinished and ready to paint (-UF). Additionally, two degrees of weather resistance are available. For many environments the basic weather resistance option (-WRC) is suitable. An extra thick DuraFlex™ coating, multilayer grille and component treatments provide excellent environmental protection. For extreme environments, with high humidity and/or rapid temperature cycling, a maximum weather treatment (-WRX) adds a full fiberglass covering of the cabinet.

## Legendary JBL Transducers

AE Series incorporates the legendary reliability of JBL's VGCT™ Vented Gap Cooled drivers, augmented by today's new generation of JBL compression drivers and neodymium Differential Drive® cone transducers. Where reliability is important, JBL transducers are known as the best, most reliable drivers in the business.



## PT™ Progressive Transition Waveguides

JBL's new patent pending Progressive Transition Waveguides represent the latest in horn technology.

In addition to providing smooth, low distortion sound, PT Waveguides deliver uniform off-axis frequency response to every point within the intended coverage area — not just in the horizontal and vertical planes — resulting in superior array-ability of multiple loudspeaker systems. PT Waveguides combine outstanding pattern control with undistorted sound for natural music and intelligible speech.



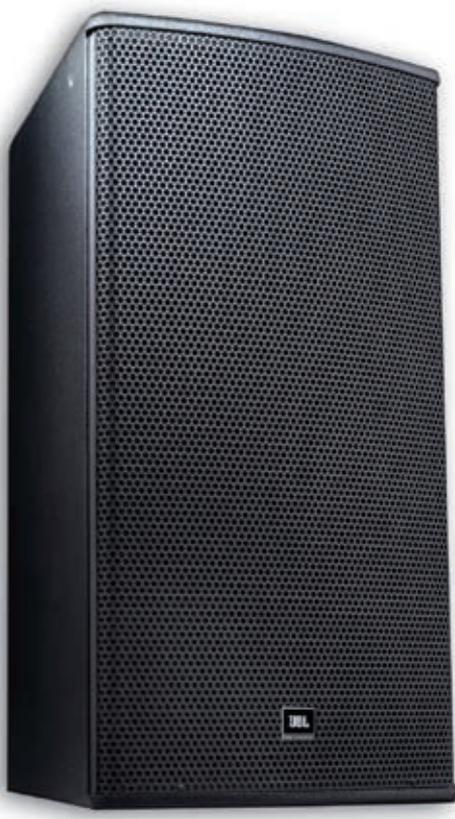
## CMCD® Cone Midrange Compression Drivers

Incorporated into all cone midrange models — patented CMCD

technology is more than a simple displacement plug. In addition to providing increased output and lower distortion, this cone-based true compression driver design extends operational bandwidth (both up and down in frequency) to cover the entire vocal range seamlessly, allows for better waveguide pattern control, and improves phase coherency of the midrange signal for clearer, more intelligible audio quality.

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Section: 06



### MODEL NUMBERING KEY

**M** = Performance Maximized  
**C** = Compact  
**LF** = Low Frequency  
**SH** = Subwoofer  
**SH** = Subwoofer Horn-Loaded

**6000** = Highest Power  
**4000** = Medium Power  
**2000** = Lower Power

**3** = 3-Way  
**2** = 2-Way  
**1** = 1-Band

## AM6340/95

EXAMPLE

**Coverage Pattern**

**Horizontal**

**0** = 100°  
**9** = 90°  
**6** = 60°

**Vertical**

**0** = 100°  
**5** = 50°  
**4** = 40°

[AM] Rotatable  
 [AC] NOT Rotatable  
(Contact JBL about additional patterns)

**The Number of LF Drivers**

**4** = 4 LF Drivers  
**2** = 2 LF Drivers  
**1** = 1 LF Driver  
**0** = 0 Mid-Hi or HF System

**Woofer Size**

**6** = 18" (For smaller future models, # may refer to the woofer-10" diameter)  
**5** = 15"  
**2** = 12"  
**0** = 10"

AE SERIES

- ▶ VERSATILE SCALED SYSTEM APPROACH
- ▶ VGC™ DRIVERS AND DIFFERENTIAL DRIVE® CONE TRANSDUCERS

- ▶ PT™ PROGRESSIVE TRANSITION WAVEGUIDES FOR EXCELLENT PATTERN CONTROL



AM6340/xx



AM6315/xx



AM6200/xx



AM4315/xx



AM4200/xx

AM | maximized 3-Way

	AM6340/95 & /64	AM6315/95 & /64	AM6200/95 & /64	AM4315/95 & /64	AM4200/95 & /64
SYSTEM TYPE	High-power Three-way	High-power Three-way	High-power Mid-high	Medium-Power Three-way	Medium-Power Mid-high
FREQUENCY RANGE	50 Hz - 19 kHz (-10 dB)	38 Hz - 19 kHz (-10 dB)	200 Hz - 19 kHz (-10 dB)	40 Hz - 23 kHz (-10 dB)	350 Hz - 23 kHz (-10 dB)
FREQUENCY RESPONSE	55 Hz - 17 kHz (± 3 dB)	45 Hz - 17 kHz (± 3 dB)	250 Hz - 17 kHz (± 3 dB)	50 Hz - 20 kHz (± 3 dB)	400 Hz - 20 kHz (± 3 dB)
NOMINAL COVERAGE	AM6340/95: 90° x 50° AM6340/64: 60° x 40°	AM6315/95: 90° x 50° AM6315/64: 60° x 40°	AM6200/95: 90° x 50° AM6200/64: 60° x 40°	AM4315/95: 90° x 50° AM4315/64: 60° x 40°	AM4200/95: 90° x 50° AM4200/64: 60° x 40°
TRANSDUCER	LF MF HF	LF MF HF	LF MF HF	LF MF HF	LF MF HF
POWER RATING(AES)	1200 W (4800 W peak) 350 W (1400 W peak) 75 W (300 W peak)	1000 W (4000 W peak) 350 W (1400 W peak) 75 W (300 W peak)	350 W (1400 W peak) 75 W (300 W peak)	500 W (2000 W peak) MF/HF: 125 W (500 W peak)	125 W (500 W peak) 35 W (120 W peak)
LONG-TERM POWER RATING(IEC): MF/HF	1000 W (4000 W peak) 350 W (1400 W peak)	600 W (2400 W peak) 350 W (1400 W peak)	350 W (1400 W peak)	350 W (1400 W peak) (Passive mode)	125 W (500 W peak)
MAXIMUM SPL <sup>1</sup> : LF MF HF	130 dB 133 dB 134 dB	125 dB 133 dB 134 dB	133 dB 134 dB 133 dB	124 dB 127 dB	127 dB 129 dB 127 dB
BI-AMP MODE: MF/HF	133 dB	133 dB			
SELECTABLE CROSSOVER MODES	Bi-amp, Tri-amp	Bi-amp, Tri-amp	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive
SUSPENSION	13 points	13 points	13 points	13 points	13 points
DIMENSIONS (H x W x D)	1094 x 561 x 657 mm 43.1 x 22.1 x 25.9 in	967 x 561 x 657 mm 38.1 x 22.1 x 25.9 in	548 x 561 x 657 mm 21.6 x 22.1 x 25.9 in	967 x 561 x 657 mm 38.1 x 22.1 x 25.9 in	548 x 561 x 657 mm 21.6 x 22.1 x 25.9 in
NET WEIGHT (each)	56.7 kg (125 lb)	48.3 kg (107 lb)	29.0 kg (64 lb)	46.7 kg (103 lb)	28.1 kg (62 lb)



AM6215/xx



AM6212/xx



AM4215/xx



AM4212/xx

AM | maximized 2-Way

	AM6215/95 & /64	AM6212/95, /64 & /00	AM4215/95 & /64	AM4212/95, /64 & /00
SYSTEM TYPE	High-power Two-way	High-power Two-way	Medium-power Two-way	Medium-power Two-way
FREQUENCY RANGE	35 Hz - 19 kHz (-10 dB)	40 Hz - 19 kHz (-10 dB)	40 Hz - 20 kHz (-10 dB)	55 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE	45 Hz - 17 kHz (± 3 dB)	60 Hz - 17 kHz (± 3 dB)	45 Hz - 18 kHz (± 3 dB)	70 Hz - 18 kHz (± 3 dB)
NOMINAL COVERAGE	AM6215/95: 90° x 50° AM6215/64: 60° x 40°	AM6212/95: 90° x 50° AM6212/64: 60° x 40° AM6212/00: 100° x 100°	AM4215/95: 90° x 50° AM4215/64: 60° x 40°	AM4212/95: 90° x 50° AM4212/64: 60° x 40° AM4212/00: 100° x 100°
TRANSDUCER	LF HF	LF HF	LF HF	LF HF
POWER RATING(AES): HF	1000 W (4000 W peak) 75 W (300 W peak)	800 W (3200 W peak) 75 W (300 W peak)	500 W (2000 W peak) 35 W (140 W peak)	400 W (2000 W peak) 35 W (140 W peak)
LONG-TERM POWER RATING(IEC) PASSIVE MODE	600 W (2400 W peak)	600 W (2400 W peak)	350 W (2400 W peak)	350 W (2400 W peak)
MAXIMUM SPL <sup>1</sup> : LF/HF PASSIVE MODE	LF: 127 dB; HF: 133 dB 127 dB	LF: 124 dB; HF: 139 dB 124 dB	LF: 124 dB; HF: 128 dB 124 dB	LF: 120 dB; HF: 125 dB 120 dB
SELECTABLE CROSSOVER MODES	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive
SUSPENSION	15 points	15 points	15 points	15 points
DIMENSIONS (H x W x D)	783 x 422 x 504 mm 30.8 x 16.6 x 19.9 in	713 x 371 x 460 mm 28.1 x 14.6 x 18.1 in	783 x 422 x 504 mm 30.8 x 16.6 x 19.9 in	713 x 371 x 460 mm 28.1 x 14.6 x 18.1 in
NET WEIGHT (each)	29.9 kg (66 lb)	26.3 kg (58 lb)	29.0 kg (64 lb)	25.4 kg (56 lb)

# specifications



AL6115

AL6125



## AC | Compact 2-Way

	AC2215/95, /64 & /00	AC2212/95, /64 & /00
SYSTEM TYPE	Lower-power Two-way	Lower-power Two-way
FREQUENCY RANGE	42 Hz - 19 kHz (-10 dB)	50 Hz - 19 kHz (-10 dB)
FREQUENCY RESPONSE	50 Hz - 17 kHz ( $\pm 3$ dB)	55 Hz - 17 kHz ( $\pm 3$ dB)
NOMINAL COVERAGE	AC2215/95: 90° x 50° AC2215/64: 60° x 40° AC2215/00: 100° x 100°	AC2212/95: 90° x 50° AC2212/64: 60° x 40° AC2212/00: 100° x 100°
TRANSDUCER	LF 275 W (1100 W peak)	300 W (1100 W peak)
POWER RATING(AES): HF	30 W (120 W peak)	30 W (120 W peak)
LONG-TERM POWER RATING (IEC)	250 W (1000 W peak)	250 W (1000 W peak)
MAXIMUM SPL <sup>1</sup> : LF	121 dB	120 dB
HF	127 dB	129 dB
PASSIVE MODE	121 dB	120 dB
SELECTABLE CROSSOVER MODES	Bi-amp, Passive	Bi-amp, Passive
SUSPENSION	15 points	15 points
DIMENSIONS (H x W x D)	637 x 422 x 504 mm	548 x 355 x 352 mm
	25.1 x 16.6 x 19.9 in	21.6 x 14.0 x 13.9 in
NET WEIGHT (each)	23.6 kg (52 lb)	18.1 kg (40 lb)

## AL | Low Frequency

	AL6115	AL6125
SYSTEM TYPE	High-power Low Freq.	High-power Low Freq.
FREQUENCY RANGE	40 Hz - 2.5 kHz (-10 dB)	40 Hz - 2.5 kHz (-10 dB)
FREQUENCY RESPONSE	47 Hz - 2.1 kHz ( $\pm 3$ dB)	42 Hz - 2.1 kHz ( $\pm 3$ dB)
TRANSDUCER	1000 W (4000 W peak)	2000 W (8000 W peak)
POWER RATING(AES)	(2 hrs)	(2 hrs)
LONG-TERM SYSTEM POWER RATING	600 W (2400 W peak)	1200 W (2400 W peak)
MAXIMUM SPL <sup>1</sup>	50 Hz - 125 Hz: 129 dB 125 Hz - 800 Hz: 127 dB	50 Hz - 125 Hz: 130 dB 125 Hz - 800 Hz: 129 dB
SELECTABLE CROSSOVER MODES	Discrete	Parallel, Discrete
ENCLOSURE	Trapezoidal, 15° side angles	Rectangular
SUSPENSION	13 points	12 points
DIMENSIONS (H x W x D)	548 x 561 x 657 mm	967 x 422 x 504 mm
	21.6 x 22.1 x 25.9 in	38.1 x 16.6 x 19.9 in
NET WEIGHT (each)	29.0 kg (64 lb)	44.5 kg (98 lb)

<sup>1</sup> Maximum long-term average SPL. Peak SPL is 6 dB higher. Figure is for highest Q version.

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Section:

06



## ASB | Subwoofers

	ASB6118	ASB6128	ASB4128	ASB6128V	ASH6118
SYSTEM TYPE	High-power Subwoofer	High-power Subwoofer	Medium-power Subwoofer	Extended Response Sub	Horn-loaded Subwoofer*
FREQUENCY RANGE	28 Hz - 1 kHz (-10 dB)	30 Hz - 1 kHz (-10 dB)	30 Hz - 1 kHz (-10 dB)	21 Hz - 300 Hz (-10 dB)	25 Hz - 250 Hz (-10 dB)*
FREQUENCY RESPONSE	35 Hz - 1 kHz ( $\pm 3$ dB)	38 Hz - 1 kHz ( $\pm 3$ dB)	40 Hz - 1 kHz ( $\pm 3$ dB)	25 Hz - 300 Hz ( $\pm 3$ dB)	30 Hz - 200 Hz ( $\pm 3$ dB)
TRANSDUCER	1200 W (4800 W peak)	2400 W (9600 W peak)	1000 W (4000 W peak)	2400 W (9600 W peak)	1200 W (4800 W peak)
POWER RATING(AES)	(2 hrs)	(2 hrs)	(2 hrs)	(2 hrs)	(2 hrs)
LONG-TERM SYSTEM POWER RATING	800 W (3200 W peak)	1600 W (6400 W peak)	600 W (2400 W peak)	1600 W (6400 W peak)	800 W (3200 W peak)
MAXIMUM SPL <sup>1</sup>	30 Hz - 100 Hz: 129 dB 100 Hz - 500 Hz: 129 dB	30 Hz - 100 Hz: 136 dB 100 Hz - 500 Hz: 136 dB	30 Hz - 100 Hz: 133 dB 100 Hz - 500 Hz: 133 dB	30 Hz - 100 Hz: 134 dB 100 Hz - 500 Hz: 135 dB	30 Hz - 140 Hz: 133 dB
SELECTABLE CROSSOVER MODES	Discrete	Parallel, Discrete	Parallel, Discrete	Parallel, Discrete	Discrete
ENCLOSURE	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
SUSPENSION	14 points	12 points	14 points	13 points	None
DIMENSIONS (H x W x D)	548 x 561 x 816 mm 21.6 x 22.1 x 32.2 in	1094 x 561 x 816 mm 43.1 x 22.1 x 32.2 in	1094 x 561 x 816 mm 43.1 x 22.1 x 32.2 in	967 x 561 x 1215 mm 38.1 x 22.1 x 47.85 in	564 x 1530 x 1288 mm 22.3 x 56.4 x 50.7 in
NET WEIGHT (each)	44.5 kg (98 lb)	73.0 kg (161 lb)	64.9 kg (143 lb)	89.8 kg (198 lb)	159.3 kg (351 lb)

\* Designed to be used in multiples (2 minimum, 4 optimum) with proximity placement or with proper boundary surface loading. Specifications shown are for one cabinet.

# Marquis Series

## key features

- HIGH PERFORMANCE VS. COST
- PRE-FITTED WITH M10 THREADED INSERTS
- VERTICAL OR HORIZONTAL ORIENTATION
- EQUIPPED WITH "YOKE MOUNT" BRACKETS



The Marquis Series is designed for use in fixed installation applications. This series has been value engineered to provide systems with the highest performance vs. cost available. The full range enclosures are pre-fitted with M10 threaded inserts and are supplied with an eyebolt kit. The MS26 and MS28 are equipped with "yoke mount" brackets and hardware. The cabinets suspend easily—both horizontally and vertically—offering a greater degree of versatility.

### MS26

The MS26 is a full-range, low profile system with 100° x 70° dispersion. This system features two 6" LF transducers and a 1" exit titanium composite tweeter integrated to a newly designed elliptical waveguide. The MS26 is ideal for close ceiling mounting or under-balcony applications.

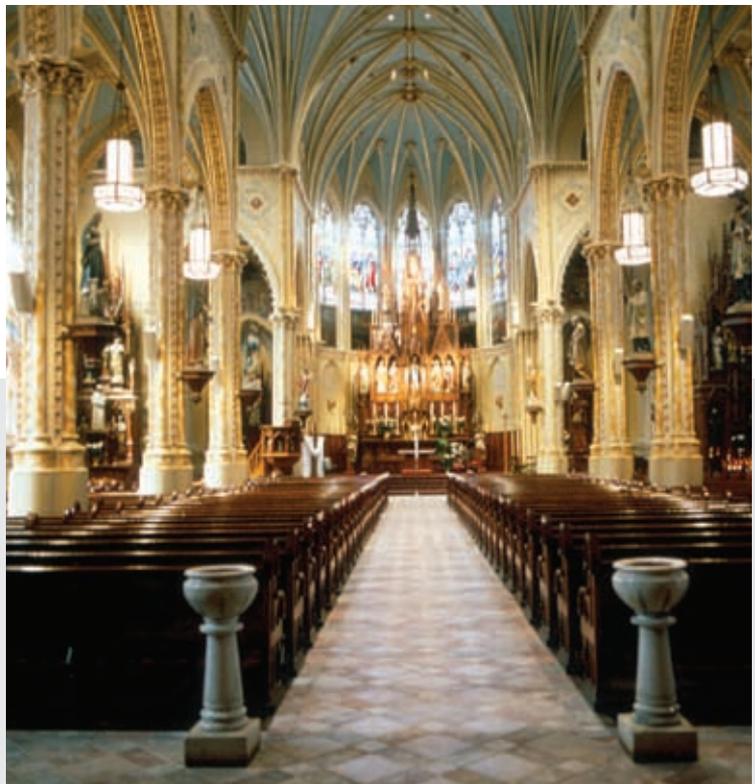
### MS28

The MS28 is a full-range, low profile system with 85° x 85° dispersion. This system features two 8" LF transducers and a 1" compression driver on an Optimized Aperture Symmetrical Radiator. The MS28 is ideal for similar applications where higher power is needed.

## specifications

	MS26	MS28
SYSTEM TYPE	Two-way Full-range	Two-way Full-range
FREQ. RANGE (-10 dB)	45 Hz - 20 kHz	40 Hz - 20 kHz
FREQ. RESPONSE (-3 dB)	65 Hz - 19 kHz	60 Hz - 19 kHz
NOMINAL COVERAGE	100° x 70°	85° x 85°
POWER CAPACITY <sup>1</sup>	150 W	200 W
SENSITIVITY: 1 W, 1 m	91 dB	93 dB
NOMINAL IMPEDANCE	16 ohms	16 ohms
COMPONENTS: LF	2 x 152 mm (6 in)	2 x 203 mm (8 in)
HF	25 mm (1 in)	25 mm (1 in)
ENCLOSURE	Low profile	Low profile
FINISH	Black DuraFlex™	Black DuraFlex
INPUT CONNECTORS	2 x NL4 Neutrik® Speakon®	2 x NL4 Neutrik Speakon
DIMENSIONS (H x W x D)	599 x 217 x 241 mm 23.6 x 8.55 x 9.5 in	676 x 291 x 321 mm 26.6 x 11.45 x 12.65 in
NET WEIGHT (each)	8.2 kg (18 lb)	12.7 kg (28 lb)

<sup>1</sup> IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB



Shrine Church of St. Stanislaus, Cleveland, Ohio

# Precision Directivity® PD5000 Series

The PD5000 Series joins JBL's broad lineup of installed sound loudspeakers, complementing the larger PD700 mid-high cabinets with a more compact size and supplementing the smaller AE Series cabinets with higher SPL capability and larger horns for pattern control to a lower frequency. The PD5000 Series loudspeakers deliver high power and constant coverage in a low profile form.

Featured across the PD5000 Series, are 24 by 24 inch PT™ Progressive Transition mid-frequency rotatable waveguides that provide versatility, excellent pattern control with low distortion and extremely natural sound character. This is an evolution of the waveguide technology of the successful JBL Professional Application Engineered™ (AE) install series. Also incorporating sophisticated, steep-slope passive crossover networks minimize band overlap, further enhancing off-axis pattern control. User accessible internal switches allow for a fully active crossover.

**PD5200/43 (40° x 30°)**  
**PD5200/64 (60° x 40°)**  
**PD5200/95 (90° x 50°)**

**The PD5200 Series Precision Directivity mid-high frequency loudspeakers** are designed for applications requiring high output capability with excellent pattern control.

The CMCD-82H cone midrange compression driver consists of a driver/phasing plug assembly providing high output with low distortion. CMCD-82H's extended response allows for smoother transition to the high frequency driver and the smaller entrance diameter into the waveguide provides for better pattern control. The internal 200 mm (8 inch) CMCD-82H features a high power neodymium Differential Drive® dual voice coil design. The 2431H large format high frequency compression driver utilizes a neodymium magnet and aluminum diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

**PD5212/43 (40° x 30°)**  
**PD5212/64 (60° x 40°)**  
**PD5212/95 (90° x 50°)**

**The PD5212 Series Precision Directivity full range two-way loudspeakers** are designed for applications requiring high output capability with excellent pattern control. The speakers can be utilized alone in music or speech systems where frequency extension to 80 Hz is adequate or combined with subwoofers to create extended bandwidth full range systems.

The M222-8A 300 mm (12 in) low frequency transducer features high sensitivity and low power compression for high continuous SPL capability. It is horn-loaded for additional sensitivity and improved pattern control. A newly designed low frequency phasing plug extends frequency response, providing smoother transition to the high frequency driver. The 2451H-1 large format high frequency compression driver utilizes a neodymium magnet and pure titanium diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

**PD5322/43 (40° x 30°)**  
**PD5322/64 (60° x 40°)**  
**PD5322/95 (90° x 50°)**

**The PD5322 Precision Directivity full range, three way loudspeakers** are designed for applications requiring high output sensitivity with excellent pattern control. They can be utilized standalone in demanding music or speech systems where low frequency extension to 40 Hz is required.

The low frequency section features two 2206H 300 mm (12 in) VGC™ Vented Gap Cooled low frequency transducers featuring high sensitivity and low power compression for high continuous SPL capability. A newly designed loading plate covering the slot loaded low frequency transducers provides the highest possible sensitivity, low frequency output and system reliability.

The mid and high frequency sections are hornloaded for additional low-mid and midrange sensitivity and improved pattern control. The CMCD-82H cone midrange compression driver consists of a driver/phasing plug assembly providing high output with low distortion. The integral 200 mm (8 in) cone driver features a high power neodymium Differential Drive® dual, voice coil design. The 2431H large format high frequency compression driver utilizes a neodymium magnet and aluminum diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

**PD5000 Series loudspeaker inputs include both Speakon® and CE-compliant covered barrier strips. The cabinets are fitted with twenty M10 threaded suspension points, supporting a wide variety of installation approaches. All cabinets are constructed with 11 ply birch and finished with black DuraFlex™.**

## PD5122

**The PD5122** is intended for use as a flown or ground supported, high power low frequency module used in conjunction with mid/high-only or full range systems of the PD5000 series to construct arrays with extended low frequency pattern control.

Low frequency transducers are the 2206H 300 mm (12 in) VGC™ Vented Gap Cooled drivers. They deliver excellent low frequency extension with minimal power compression and low distortion plus high sensitivity and power handling.

## PD5125

**The PD5125** is a high power low frequency loudspeaker comprised of two 380 mm (15 in) VGC Vented Gap Cooled low frequency drivers in a front-loaded, vented configuration. Though it is intended for use as a flown or ground supported, high power low frequency module used in conjunction with mid/high or full range systems of the PD5000 and PD700 series, the PD5125 will perform well in any application where high output low bass is required.

Low frequency transducers are the 2226H 380 mm (15 in) VGC Vented Gap Cooled drivers. They deliver excellent low frequency extension with minimal power compression and low distortion plus high sensitivity and power handling. Large vent area assures minimal port compression and low distortion at high output levels.

PD5000 SERIES

# key features

- ▶ CLEAR, INTELLIGIBLE HIGH FREQUENCY PROJECTION
- ▶ LARGE PT™ PROGRESSIVE TRANSITION WAVEGUIDES FOR PATTERN CONTROL, LOW DISTORTION AND SMOOTH RESPONSE
- ▶ ROTATABLE WAVEGUIDES FOR HORIZONTAL OR VERTICAL CABINET ORIENTATION
- ▶ INTEGRAL, SOPHISTICATED STEEP-SLOPE PASSIVE CROSSOVER NETWORKS WITH BIAMP/ PASSIVE SWITCHABLE CROSSOVER MODES
- ▶ TWO FULLY-COMPATIBLE LOW FREQUENCY LOUDSPEAKERS FOR INSTALLATION VERSATILITY



PD5200/43, PD5200/64 (shown)  
PD5200/95



PD5212/43 (shown), PD5212/64  
PD5212/95



PD5322/43, PD5322/64  
PD5322/95 (shown)

## specifications

	PD5200/43	PD5200/64	PD5200/95	PD5212/43	PD5212/64	PD5212/95
SYSTEM TYPE	Mid-High Frequency	Mid-High Frequency	Mid-High Frequency	Two-Way Full-Range	Two-Way Full-Range	Two-Way Full-Range
FREQUENCY RANGE <sup>1</sup>	200 Hz - 18 kHz (-10 dB)	200 Hz - 18 kHz (-10 dB)	200 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)
FREQUENCY RESPONSE	240 Hz - 16 kHz (±3 dB)	240 Hz - 16 kHz (±3 dB)	240 Hz - 16 kHz (±3 dB)	90 Hz - 16 kHz (±3 dB)	90 Hz - 16 kHz (±3 dB)	90 Hz - 16 kHz (±3 dB)
SYSTEM SENSITIVITY: 1 W, 1m	111 dB SPL (Passive Mode)	110 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	107 dB SPL (Passive Mode)	106 dB SPL (Passive Mode)
NOMINAL COVERAGE	40° x 30°	40° x 40°	60° x 50°	40° x 30°	60° x 40°	90° x 50°
TRANSDUCER	MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 400 W (1600 W pk), 2 hrs LF: 300 W (1200 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 400 W (1600 W pk), 2 hrs LF: 300 W (1200 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 400 W (1600 W pk), 2 hrs LF: 300 W (1200 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs
POWER RATING (AES) <sup>2</sup>						
LONG-TERM <sup>3</sup>	LF: 300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs
POWER RATING (IEC): MF/HF						
MAXIMUM SPL: <sup>4</sup>	LF: 137 dB SPL (143 dB peak) Cont. Avg. MF: 135 dB SPL (141 dB peak) HF: 136 dB SPL (142 dB peak)	135 dB SPL (141 dB peak) 135 dB SPL (141 dB peak) 135 dB SPL (141 dB peak)	134 dB SPL (140 dB peak) 133 dB SPL (139 dB peak) 133 dB SPL (139 dB peak)	137 dB SPL (143 dB peak) 135 dB SPL (141 dB peak) 134 dB SPL (140 dB peak)	135 dB SPL (143 dB peak) 135 dB SPL (141 dB peak) 132 dB SPL (138 dB peak)	134 dB SPL (140 dB peak) 133 dB SPL (139 dB peak) 131 dB SPL (137 dB peak)
PASSIVE MODE: MF/HF						
ENCLOSURE	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles
DIMENSIONS (H x W x D)	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in
NET WEIGHT (each)	69.0 kg (152 lb)	58.8 kg (130 lb)	58.8 kg (130 lb)	75.5 kg (175 lb)	69.0 kg (152 lb)	69.0 kg (152 lb)

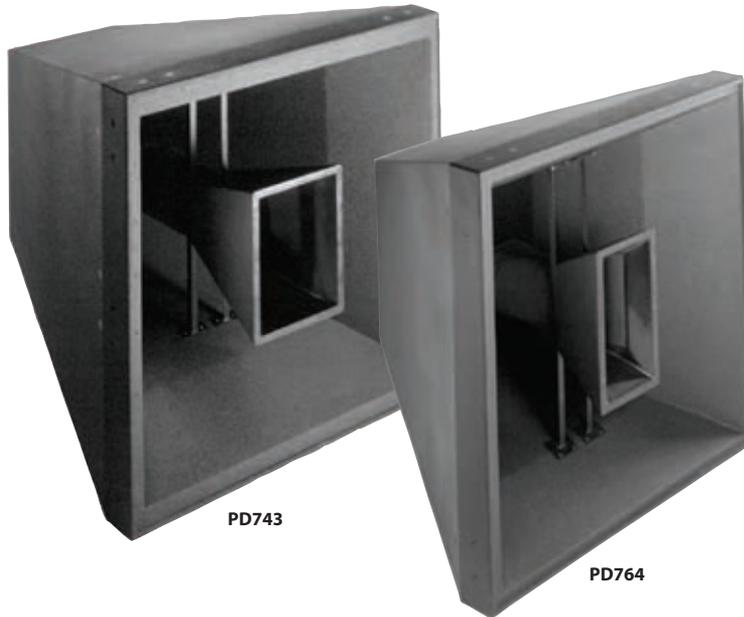
	PD5322/43	PD5322/64	PD5322/95	PD5122	PD5125	
SYSTEM TYPE	Three-Way Full-Range	Three-Way Full-Range	Three-Way Full-Range	Slot-Loaded Low Frequency	Dual 15" Low Frequency	
FREQUENCY RANGE <sup>1</sup>	41 Hz - 17 kHz (-10 dB)	41 Hz - 17 kHz (-10 dB)	41 Hz - 17 kHz (-10 dB)	41 Hz - 1 kHz (-10 dB)	37 Hz - 2.5 kHz (-10 dB)	
FREQUENCY RESPONSE	49 Hz - 15 kHz (±3 dB)	49 Hz - 15 kHz (±3 dB)	49 Hz - 15 kHz (±3 dB)	49 Hz - 300 Hz (±3 dB)	42 Hz - 2.1 kHz (±3 dB)	
SYSTEM SENSITIVITY: 1 W, 1m	111 dB SPL (Passive Mode)	110 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	96 dB (60 Hz - 250 Hz) <sup>5</sup>	103 dB (50 Hz - 125 Hz) <sup>5</sup>	
NOMINAL COVERAGE	40° x 30°	60° x 40°	90° x 50°			
TRANSDUCER	LF: 1600 W (6400 W pk), 2 hrs LF: 1200 W (4800 W pk), 100 hrs MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 1600 W (6400 W pk), 2 hrs LF: 1200 W (4800 W pk), 100 hrs MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 1600 W (6400 W pk), 2 hrs LF: 1200 W (4800 W pk), 100 hrs MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	1600 W (6400 W pk) 2 hrs <sup>2</sup>	1600 W (6400 W pk) 2 hrs <sup>2</sup>	
POWER RATING (AES) <sup>2</sup>						
LONG-TERM <sup>3</sup>	LF: 1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk), 100 hrs <sup>6</sup>	1200 W (4800 W pk), 100 hrs <sup>6</sup>	
POWER RATING (IEC): MF/HF						
MAXIMUM SPL: <sup>4</sup>	LF: 128 dB SPL (134 dB peak) Cont. Avg. MF: 137 dB SPL (143 dB peak) HF: 135 dB SPL (141 dB peak)	128 dB SPL (134 dB peak) 135 dB SPL (141 dB peak) 135 dB SPL (141 dB peak)	128 dB SPL (134 dB peak) 134 dB SPL (140 dB peak) 133 dB SPL (139 dB peak) 134 dB SPL (140 dB peak)	128 dB SPL (134 dB pk) <sup>4</sup>	136 dB SPL (142 pk) (50 Hz - 125 Hz) <sup>4</sup>	
PASSIVE MODE: MF/HF						
ENCLOSURE	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 10° side angles	
DIMENSIONS (H x W x D)	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	357 x 673 x 706 mm 14.1 x 26.5 x 27.8 in	991 x 476 x 691 mm 39 x 18.75 x 27.2 in	
NET WEIGHT (each)	87.3 kg (192 lb)	77 kg (170 lb)	77 kg (170 lb)	36.4 kg (80 lb)	53.4 kg (118 lb)	

<sup>1</sup> In bi-amp mode, with recommended active tuning.  
<sup>2</sup> AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.  
<sup>3</sup> IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours, passive mode.  
<sup>4</sup> Calculated based on power rating and sensitivity, exclusive of power compression.  
<sup>5</sup> Anechoic sensitivity in free field, no additional sensitivity gains from boundary loading.  
<sup>6</sup> AES standard, one decade pink noise with 6 dB crest factor, in cabinet, long-term 100 hr rating.

# Precision Directivity® PD700

## key features

- ❶ FSA™ FORWARD STEERED ARRAY ENCLOSURE CONFIGURATIONS
- ❷ AVAILABLE SUSPENSION TRUSS COMPONENTS FOR EASY AND COST EFFECTIVE ARRAY BUILDING



PD743

PD764

One of the challenges in large arenas, stadiums, houses of worship and performance spaces is to provide quality sound to every seat with the volume and clarity demanded by today's concert, sporting and special events. JBL Professional's Precision Directivity® (PD) line of speakers uses a full range, full bandwidth total system approach that allows contractors and consultants to design a fully integrated sound system solving the audio challenges inherent to these types of large installations.

**PD743 (40° x 30°) AND PD764 (60° x 40°)**  
 The PD743 and PD764 mid-high loudspeaker systems provide high-impact sound reinforcement at throw distances that are beyond the reach of traditional single-driver designs. A single module produces greater than 104 dB SPL (continuous) at distances of 65 m (215 ft) with a 40° by 30° coverage pattern (PD743) or a 60° by 40° coverage pattern (PD764). These systems may be used in arrays with other PD Series modules or singly as part of a distributed system.

## specifications

	PD743	PD764
SYSTEM TYPE	Mid High Loudspeaker System	Mid High Loudspeaker System
FREQUENCY RANGE	150 Hz - 17 kHz (-10 dB)	150 Hz - 17 kHz (-10 dB)
FREQUENCY RESPONSE	200 Hz - 15 kHz (± 3 dB)	200 Hz - 15 kHz (± 3 dB)
NOMINAL COVERAGE	40° x 30° (H x V)	60° x 40° (H x V)
SENSITIVITY ( 1 W, 1 m)	MF: 111 dB, HF: 118 dB	MF: 109 dB, HF: 116 dB
NOMINAL IMPEDANCE	MF: 8 ohms, HF: 16 ohms	MF: 8 ohms, HF: 16 ohms
INPUT POWER RATING	MF: 700 W, AES; 2800 W peak HF: 150 W, AES; 600 W peak	MF: 700 W, AES; 2800 W peak HF: 150 W, AES; 600 W peak
TRANSDUCERS	2 x 2250J (203 mm/8 in) 2 x 2430H (75 mm/3 in)	2 x 2250J (203 mm/8 in) 2 x 2430H (75 mm/3 in)
ENCLOSURE	Dual Trapezoidal 25° V, 35° H	Dual Trapezoidal 35° V, 55° H
FINISH	Black DuraFlex™	Black DuraFlex
INPUT CONNECTORS	1 x NL4 Neutrik® Speakon®	1 x NL4 Neutrik Speakon
DIMENSIONS (H x W x D)	991 x 991 x 1146 mm 39 x 39 x 45.1 in	991 x 991 x 883 mm 39 x 39 x 34.75 in
NET WEIGHT (each)	111.4 kg (245 lb)	97.7 kg (215 lb)



Honda Center, Anaheim, California

# VLA Series

# Variable Line Array Loudspeakers

## key features

- HORN-LOADED LINE ARRAY
- STANDARD & HIGH-OUTPUT VERSIONS AVAILABLE

- COMBINES PD700 & VT TECHNOLOGIES

## VLA SERIES

variable line array



Variable Line Array Series (VLA Series) is a revolutionary product providing high-impact sound reinforcement at throw distances beyond the reach of traditional loudspeaker designs. The modular design concept provides the system designer the ability to build large line array systems for larger venue applications or to design smaller line array systems for use as distributed clusters in arenas, domed stadiums and larger performance spaces, including large houses of worship.

VLA is designed specifically for permanent installation applications where even coverage, intelligibility, and levels capable of overcoming crowd noise are required.

VLA modules are based on the same advanced engineering used in the highly successful VERTEC® Series line array systems. VLA provides six large format horn-loaded modules with three horizontal horn coverage patterns (30°, 60°, & 90°). This modular concept provides the designer the additional flexibility to vary the horizontal pattern within a vertical array by incorporating different modules with wider or narrower coverage patterns while still maintaining the vertical directivity.

	VLA301	VLA301H	VLA601	VLA601H	VLA901	VLA901H
SYSTEM TYPE	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker
FREQUENCY RESPONSE <sup>1</sup>	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)
HORIZONTAL COVERAGE	30°	30°	60°	60°	90°	90°
SENSITIVITY <sup>4</sup> : 1 W, 1 m LF/MF/HF	100/111/120 dB SPL	100/111/119 dB SPL	100/109/117 dB SPL	100/110/117 dB SPL	99/106/115 dB SPL	99/108/115 dB SPL
NOMINAL IMPEDANCE LF/MF/HF	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms
SYSTEM POWER RATING <sup>2</sup> : LF	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.
MF	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.
HF	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.
MAXIMUM SPL <sup>3</sup> : LF	132 dB SPL continuous average	131 dB SPL continuous average	131 dB SPL continuous average			
MF	139 dB SPL continuous average	142 dB SPL continuous average	137 dB SPL continuous average	141 dB SPL continuous average	134 dB SPL continuous average	139 dB SPL continuous average
HF	142 dB SPL continuous average	146 dB SPL continuous average	141 dB SPL continuous average	144 dB SPL continuous average	139 dB SPL continuous average	142 dB SPL continuous average
TRANSDUCERS: LF	2 x 2226H (380 mm/ 15 in)					
MF	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)
HF	3 x 2431H (38 mm/ 1 1/2 in)	6 x 2431H (38 mm/ 1 1/2 in)	3 x 2431H (38 mm/ 1 1/2 in)	6 x 2431H (38 mm/ 1 1/2 in)	3 x 2431H (38 mm/ 1 1/2 in)	6 x 2431H (38 mm/ 1 1/2 in)
ENCLOSURE	12-ply birch plywood					
FINISH	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™
INPUT CONNECTORS	Neutrik Speakon® NL8 Plus covered barrier strip					
DIMENSIONS (H x W x D)	533 x 1351 x 1384 mm 21.0 x 53.2 x 54.5 in	533 x 1351 x 1384 mm 21.0 x 53.2 x 54.5 in	533 x 1351 x 772 mm 21.0 x 53.2 x 30.4 in	533 x 1351 x 772 mm 21.0 x 53.2 x 30.4 in	533 x 1351 x 640 mm 21.0 x 53.2 x 25.2 in	533 x 1351 x 640 mm 21.0 x 53.2 x 25.2 in
NET WEIGHT (each)	140 kg (309 lb)	155 kg (342 lb)	102 kg (225 lb)	116 kg (256 lb)	96 kg (211 lb)	109 kg (241 lb)

<sup>1</sup> With recommended active tuning. (Digital signal processing is required in order to achieve specified performance.)

<sup>2</sup> AES standard, one decade pink noise with 6 dB crest factor

within device's operational band, free air. Standard AES ratings are specified for low-frequency transducers.

<sup>3</sup> Calculated based on power rating and sensitivity.

<sup>4</sup> Anechoic sensitivity in free field, no additional sensitivity gains from boundary loading.

# VP Series

## Self-Powered Integrated Audio Systems



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### VP SERIES venue performance

Introducing the Venue Performance Series—a family of self-powered loudspeaker systems consisting of eight models, suitable for portable or fixed installation sound reinforcement applications where high-output, low-distortion, and the highest quality sound are required. These systems are designed with compatibility in mind for applications where multiple individual loudspeakers might be required for a distributed system or where multiple loudspeakers will be configured into arrays for point source clusters.

#### JBL DrivePack®



A key feature of the VP Series is its highly adaptable JBL

DrivePack® amplifier module. The two-channel module provides 1100 watts of total power to each full-range system. The sub-woofer module provides 1800 watts of power to the loudspeaker. The JBL DrivePack operates on auto-selecting line voltages at 50 or 60 Hz for worldwide operation.

#### Feature Loaded

The VP Series features JBL Differential Drive® cone transducers and the new 2452H-SL compression driver. Each VP Series system features integral digital signal processing and is compliant with Harman Professional's HiQnet System Architect™ software for remote control and monitoring.

The VP Series also includes:

- Newly-created stylized and ergonomically designed powder-coated steel handles
- Industry-standard air-cargo track suspension and M10 threaded suspension points



**DPAN Input Module with analog audio and 100 Mb Ethernet networking functionality and HiQnet compatibility**



#### DPAN Input Module

The VP Series features the **DPAN input module** as standard. The DPAN input module includes analog audio inputs and sophisticated onboard digital signal processing technology. Precision band-pass limiting, pre-equalization filters and automatic self-test functions ensure optimized performance.

All models can be ordered with the **optional DPCN input module**. The DPCN input module is also HiQnet compatible, with CobraNet™ digital audio input capabilities. It offers the ability to direct up to 64 audio channels on one network, with digital audio and remote control and monitoring via Ethernet combined on a single cable. DPCN includes the option to use an analog input as a backup audio source providing complete reliability and flexibility to cover any situation. As with the DPAN, user-addressable features include ten internal pre-e.q. filter presets, up to 2 seconds of signal delay per channel, and onboard noise and sine-wave generators.



# key features

- NEW 2452H-SL 4" DAMPED DIAPHRAGM HIGH-FREQUENCY COMPRESSION DRIVER
- JBL DRIVEPACK® TECHNOLOGY, CO-ENGINEERED WITH CROWN
- COMPREHENSIVE ON-BOARD DSP
- HIQNET™ SYSTEM ARCHITECT™ COMPATIBILITY
- OPTIONAL DPCN COBRANET™ INPUT MODULE FOR DIGITAL AUDIO CONNECTIVITY
- DIFFERENTIAL DRIVE® LOW-FREQUENCY DRIVERS
- INTEGRATED RIGGING HARDWARE
- ERGONOMICALLY DESIGNED HANDLES



VP7215/64DPAN (shown)  
VP7215/95DPAN

VP7212/64DPAN (shown)  
VP7212/95DPAN

VPSB7118DPAN

VP7212MDP

VP7315/64DPAN

VP7210/95DPAN

### VP7210/95DP

The **VP7210/95DP** is a 10" two way system with the 2452H-SL compression driver. This model features a 90° x 50° rotatable horn. The system is driven by an 875w continuous power three channel DPC-2 JBL DrivePack®.

### VP7212MDP

The **VP7212MDP** is a dedicated 12" two-way floor monitor and features 2452H-SL 4" voice coil compression driver. The VP7212MDP is equipped with the JBL DrivePack model DPC-2 with 850w continuous power available.

### VP7212/64DPAN (60° x 40°)

### VP7212/95DPAN (90° x 50°)

The **VP7212/64DPAN** and **VP7212/95DPAN** are two-way speaker systems housing one 12" Differential Drive low frequency transducer and the new 2452H-SL compression driver. The VP7212 is available with either a 60° x 40° or 90° x 50° JBL Progressive Transition™ Waveguide.

### VP7215/64DPAN (60° x 40°)

### VP7215/95DPAN (90° x 50°)

The **VP7215/64DPAN** and **VP7215/95DPAN** are two-way speaker systems housing one 15" Differential Drive low frequency transducer and the new 2452H-SL compression driver. The VP7215 is available with either a 60° x 40° or 90° x 50° JBL Progressive Transition™ Waveguide.

### VP7315/64DPAN

The **VP7315/64DPAN** is a three way system housing one 15" Differential Drive low frequency transducer, the CMCD-82H 8" midrange transducer and the new 2452H-SL compression driver mounted on a JBL PT-K64-MHF Progressive Transition Waveguide.

### VPSB7118DPAN

The **VPSB7118DPAN** subwoofer system features one 18" Differential Drive low frequency transducer. This model includes an integrated pole mount, and is sized to readily combine into arrays of various configurations using other models in the line.

## specifications

	VP7210/95DP	VP7212MDP	VP7212/64DPAN & VP7212/95DPAN	VP7215/64DPAN & VP7215/95DPAN	VP7315/64DPAN	VPSB7118DPAN
SYSTEM TYPE	Self-Powered Two-way Speaker System	Self-Powered Three-way Speaker System	Self-Powered Sub-woofer System			
FREQUENCY RESPONSE	80 Hz – 20 kHz (±3 dB)	80 Hz - 18 kHz (±3 dB)	60 Hz - 18 kHz (±3 dB)	45 Hz - 18 kHz (±3 dB)	45 Hz - 18 kHz (±3 dB)	35 Hz - 125 Hz (±3 dB)
NOMINAL COVERAGE	90 x 50	50 x 90	VP7212/64: 60 x 40 VP7212/95: 90 x 50	VP7215/64: 60 x 40 VP7215/95: 90 x 50	VP7315/64: 60 x 40	
DRIVEPACK POWER RATINGS	1750W Peak (875W Cont)	1750W Peak (875W Cont)	2200W Peak (1100W Cont)	2200W Peak (1100W Cont)	2200W Peak (1100W Cont)	3600W Peak (1800W Cont)
TRANSDUCERS: LF HF (MF)	10 in Differential Drive 2452H-SL 1.5" exit compression driver	12 in Differential Drive 2452H-SL 1.5" exit compression driver	12 in Differential Drive 2452H-SL 1.5" exit compression driver	15 in Differential Drive 2452H-SL 1.5" exit compression driver	15 in Differential Drive 2452H-SL 1.5" exit compression driver CMCD-82H (8" Midrange) JBL PT-K64-MHF Progressive Transition™ Waveguide	18 in Differential Drive
HF (MF) HORN	JBL Progressive Transition™ Waveguide	JBL PT-K64-MHF Progressive Transition™ Waveguide				
FINISH	Black Duraflex™	Black Duraflex™				
GRILLE	14-gauge perforated steel	14-gauge perforated steel				
INPUT CONNECTOR	M/FM XLR	M/FM XLR	Female XLR/Male XLR	Female XLR/Male XLR	Female XLR/Male XLR	Female XLR/Male XLR
INPUT CONNECTOR OPTION			DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR
DIMENSIONS (H x W x D)	521 x 293 x 303 mm 20.5 x 11.5 x 11.9 in	346 x 565 x 413 mm 13.6 x 22.3 x 16.2 in	701.8 x 383.8 x 523.5 mm 27.63 x 15.11 x 20.61 in	765.3 x 447.6 x 523.5 mm 30.13 x 17.62 x 20.61 in	914.4 x 528.3 x 624.8 mm 36 x 20.8 x 24.6 in	414.4 x 701.8 x 812.8 mm 20.25 x 27.63 x 32 in
NET WEIGHT (each)	18.4 kg (40.5 lb)	20.7 kg (45.5 lb)	35.4 kg (78 lb)	38.6 kg (85 lb)	44 kg (97 lb)	58.5 kg (129 lb)

# Tour Sound Products

Harman Pro Group | 2008

Section:

06

JBL  
PROFESSIONAL



JBL VERTEC® Line Array Systems for Neil Diamond World Tour (VT4889, VT4887, VT4880)

Rental System Contractor: Maryland Sound

*Photo courtesy of Patrick Stansfield*



2269H  
Ultra Long Excursion Woofer

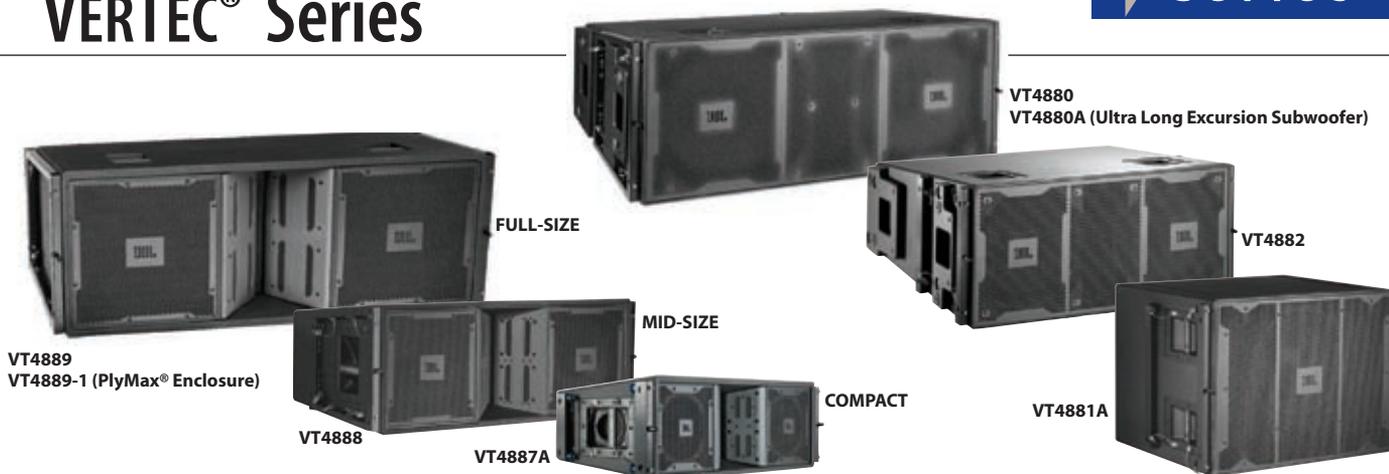
2435  
Beryllium-diaphragm, neodymium magnet compression driver

Perhaps more than any other single company in the professional sound industry, JBL Professional, under the guiding wisdom of founder James B. Lansing, has shaped large scale forms of public entertainment we now take for granted. Through Mr. Lansing's development of revolutionary transducers and the resulting sound reinforcement technologies, concerts and special events of all types can now enjoy exceptional sound quality.

JBL has continued this tradition of revolutionary technology with the introduction of VERTEC® – a flexible, high performance product line with compact, mid-size and full-size line array elements and companion subwoofers. It's the ideal solution to a broad range of sound reinforcement challenges for both portable rental inventories, and fixed performance-venues.



# VERTEC® Series



JBL's early research into column-type line arrays over 25 years ago provides a solid foundation to VERTEC – Line arrays with lineage. Combining JBL's latest generation of high-powered lightweight transducers with proven line array theory, precisely-adjustable array elements and an accurate predictive software application, this industry-leading product line enables tour sound system operators, rental companies and performance venues to achieve predictable, consistent results. And for maximum flexibility, models VT4881A, VT4882, VT4887A and VT4888 are "Power-Ready": pre-engineered to accept optional powered amplifier modules with integral digital signal processing.



### VT4889/VT4889-1

The **VT4889** and **VT4889-1** are full-size, lightweight enclosures housing two 15" woofers, four 8" midrange radiators, and three high frequency compression drivers. These advanced components provide the highest power-to-weight ratio of any speaker in the full-size line array class. The VT4889-1 is a PlyMax® enclosure.

### VT4888

The **VT4888** is a mid-size, lightweight line array element housing two 12" woofers, four 5 1/2" midrange radiators, and two high frequency compression drivers. It is designed for use in stand-alone arrays or in combination with other VERTEC system products.



### VT4887A

The **VT4887A** is a compact, lightweight line array element housing two 8" woofers, four 4" midrange radiators, and two high frequency compression drivers. Offering extended low-frequency high output for its size, it can be used in stand-alone arrays or in combination with other VERTEC system products.

### VT4880

The **VT4880** is a full-size, lightweight centrally vented subwoofer enclosure housing two 18" woofers. These advanced components, each fitted with dual voice coils, provide high output capabilities for an arrayable enclosure fully compatible with the VT4889 full range system.

### VT4882

The **VT4882** is a mid-size, lightweight centrally vented subwoofer enclosure housing two long-extension 15" woofers. These advanced components, each with dual voice coils, provide high output capabilities and an advantageous power-to-weight ratio.

### VT4881A

The **VT4881A** is a compact, lightweight, vented subwoofer enclosure housing a dual voice coil 18" woofer. This advanced component has a compliance capable of nearly 3" (76 mm) peak-to-peak cone excursion for true very low frequency performance.

## specifications

	VT4889/VT4889-1	VT4888	VT4887A	VT4880	VT4880A	VT4882	VT4881A
<b>SYSTEM TYPE</b>	Full-size Three-way Line Array Element	Mid-size Three-way Line Array Element	Compact Bi-amped Line Array Element	Full-size Dual 18" Subwoofer	Full-size Dual 18" Ultra Long Excursion Subwoofer	Mid-size Dual 15" Subwoofer	Compact 15" Subwoofer
<b>FREQUENCY RESPONSE</b>	45 Hz - 16 kHz (± 3 dB)	60 Hz - 16 kHz (± 3 dB)	67 Hz - 20 kHz (± 3 dB)	28 Hz - 75 Hz (± 3 dB)	29 Hz - 120 Hz (-3 dB)	32 Hz - 110 Hz (± 3 dB)	34 Hz - 125 Hz (± 3 dB)
<b>COVERAGE (H) -6 dB</b>	90° nominal	90° nominal	100° nominal (500 Hz - 16 kHz)				
<b>SENSITIVITY: 1 W, 1 m</b>	LF: 99 dB, MF: 102 dB, HF: 116 dB	LF: 98 dB, MF: 102 dB, HF: 114 dB	LF: 97 dB, MF/HF: 103 dB	LF: 98 dB (2.83v/1m)	LF: 95 dB (2.83v/1m)	LF: 95 dB (35 Hz - 120 Hz)	LF: 91 dB (2.83v/1m)
<b>NOMINAL IMPEDANCE</b>	LF: 2 x 8 ohms, MF: 8 ohms, HF: 16 ohms	LF: 2 x 8 ohms, MF: 8 ohms, HF: 16 ohms	LF: 8 ohms, MF/HF: 8 ohms	LF: 2 x 8 ohms	LF: 2 x 8 ohms	LF: 8 ohms (Each coil independently wired)	LF: 8 ohms (Each coil independently wired)
<b>INPUT POWER RATING<sup>1</sup>: LF MF/HF</b>	2 x 1000 W 1400 W MF / 225 W HF	2000 W 600 W MF / 150 W HF	1000 W 225 W (MF/HF)	2000 W	4000 W	2000 W	2000 W
<b>TRANSDUCERS</b>	LF: 2 x 2255H (15 in) MF: 4 x 2250H (8 in) HF: 3 x 2435H	LF: 2 x 2262H (12 in) MF: 4 x 2106H (5 1/2 in) HF: 2 x 2431H	LF: 2 x 2168J-1 (8 in) MF: 4 x 2104H (4 in) HF: 2 x 2408H	LF: 2 x 2258H (18 in) (Dual-Coil)	LF: 2 x 2269H (18 in) (Dual-Coil)	LF: 2 x 2266H (15 in) (Dual-Coil)	LF: 1 x 2269H (18 in) (Dual-Coil)
<b>ENCLOSURE</b>	Wedge Frustrum PlyMax® [VT4889-1]	Wedge Frustrum	Wedge Frustrum, PlyMax	Wedge Frustrum	Wedge Frustrum	Wedge Frustrum	Rectangular, PlyMax
<b>FINISH</b>	DuraFlex™	DuraFlex	DuraFlex	DuraFlex	DuraFlex	DuraFlex	DuraFlex
<b>INPUT CONNECTORS</b>	NL8, 2 each	NL8, 2 each	NL8 and NL-4, 2 each	NL4, 2 each	NL8 and NL4, 2 each	NL8 and NL4, 2 each	NL8 and NL4, 2 each
<b>DIMENSIONS (H x W x D)</b>	489 x 1213 x 546 mm 19.25 x 47.75 x 21 in	355 x 991 x 508 mm 14 x 39 x 20 in	281 x 787 x 415 mm 11 x 31 x 16.3 in	493 x 1229 x 860 mm 19.42 x 48.38 x 33.85 in	493 x 1229 x 860 mm 19.42 x 48.38 x 33.85 in	457 x 1013 x 858 mm 18 x 39.9 x 33.8 in	569 x 787 x 654 mm 22.4 x 31 x 25.8 in
<b>NET WEIGHT (each)</b>	72.6 kg (160 lb) [VT4889] 78.9 kg (174 lb) [VT4889-1]	51.3 kg (113 lb)	30.4 kg (67 lb)	68.5 kg (151 lb)	83.9 kg (185 lb)	53.5 kg (118 lb)	50.4 kg (111 lb)

<sup>1</sup> AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hour rating plus long term 100 hour rating are specified for cone transducers.



# VERTEC®

## Flexible Line Array Solutions

All models in the VERTEC product line are engineered to offer sound reinforcement professionals solutions to meet nearly any challenge. Each model is compatible with others in the line, both mechanically and acoustically. With built-in advantages like lightweight construction, high output, and integral rigging hardware, each VERTEC model is designed to deliver premium-quality audio for a wide range of applications including concert touring, corporate A/V system support, and fixed systems in performance venues.

### HIGH-PERFORMANCE FEATURES

Each model in the VERTEC system family includes a suite of high performance technologies, engineered to work together to maximize utility and audio performance.

**PlyMax® enclosure technology** is used for constructing the VT4888, VT4887, VT4882, VT4881 and VT4880 systems. PlyMax offers rigid enclosure characteristics along with dramatic weight savings. The flagship model VT4889 features an advanced composite shell.

**Advanced Transducers** give each VERTEC system its performance edge. Like the full-size VT4889 and VT4880 subwoofer, each compact and mid-size model features loudspeaker components with neodymium magnets, and dual voice coil woofers. This combination enables the exceptionally high output characteristics the VERTEC line is legendary for, while ensuring pristine, low-distortion audio reproduction for any type of speech or music.

**Precision waveguides** are coupled to the advanced-technology drivers to create an uninterrupted vertical 'ribbon' of high frequency energy in the full-range system.

**Radiation Boundary Integrators™** in the midrange section of each system serve a dual purpose. The patented RBI reduces diffraction effects and smooths high frequency coverage.

**Robust low frequency components** are a hallmark of the entire line. All woofers rely on dual voice coil technology for unparalleled output capabilities.

### TOUR-READY SYSTEMS

Each model in the VERTEC line is intended to support the type of rugged use encountered when professional-quality loudspeaker systems are transported from venue to venue, supplying audio support services for a broad range of musical programs and special events. Care has been given to system design ergonomics, making VERTEC arrays among the simplest and fastest to setup and takedown.

All enclosures feature JBL Professional's rugged DuraFlex™ exterior finish. Each system features loudspeaker components with weather-resistant cone treatment.

### S.A.F.E.™ SUSPENSION HARDWARE

All models in the VERTEC line are fitted with integral end-mounted rigging frames. These load-rated, heat-treated, premium-grade tubular frames couple together using quick-release pins and hinge bars to create arrays that are rigid for maximum strength, yet flexible in design and application.

### ARRAY FRAME OPTIONS

The VERTEC suspension system includes several frame options for hanging arrays of various sizes.



**VT4889-AF (Array Frame)**

"AF" (Array Frames) and "SF" (Short Frames) are available in each size for use with compact, mid-size and full-size line array elements.

The Short Frames can also be used as an 'anchor' at the bottom of large arrays, if a separate pickup point is required to



**VT4889-SF (Short Frame)**

tilt the array. These frames are also suitable for ground-stacking up to 6 enclosures (AF models) or 4 enclosures (SF models).

### LINE ARRAY CALCULATOR SOFTWARE

Available to system users, this MSExcel-based application provides a wealth of technical information about VERTEC line array system designs and their performance expectations in various audience seating areas.

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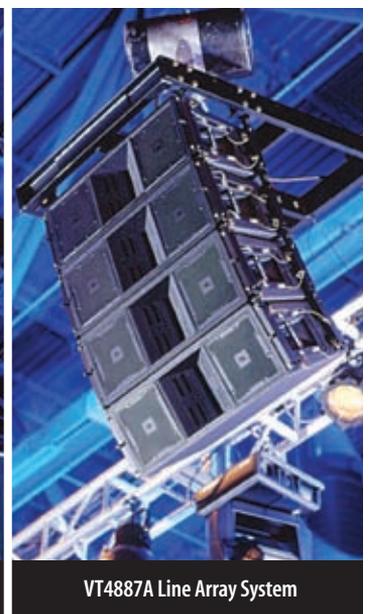
VT4888 Line Array System



VT4882 Subwoofer Line Array



VT4881A Subwoofer Line Array



VT4887A Line Array System

VERTEC SERIES

# key features

- INDUSTRY'S SMALLEST, LIGHTEST, MOST POWERFUL HIGH FREQUENCY COMPRESSION DRIVERS

- ADVANCED TECHNOLOGY COMPONENTS
- PRECISION WAVEGUIDES COUPLE TO CREATE HF VERTICAL SLOT APERTURE
- RADIATION BOUNDARY INTEGRATOR (RBI™) TECHNOLOGY INTEGRATES OUTPUT OF INDIVIDUAL BANDPASS ELEMENTS

- EXCEPTIONALLY RIGID, LIGHTWEIGHT ENCLOSURE CONSTRUCTION
- RUGGED DURAFLEX™ EXTERIOR FINISH AND WEATHERIZED COMPONENTS
- INTEGRATED S.A.F.E.™ SUSPENSION SYSTEM

## VERTEC® SYSTEM FEATURES



PRECISION WAVEGUIDES



RBI™: RADIATION BOUNDARY INTEGRATOR



INPUT PANEL WITH PARALLEL CONNECTORS

## VT4889 SYSTEM COMPONENTS



2255H 15" DIFFERENTIAL DRIVE® LOUDSPEAKER



2250H 8" MIDRANGE CONE TRANSDUCER



2435H HIGH PERFORMANCE COMPRESSION DRIVER

# accessories

These accessories ship with the VT4889 and are also available as replacement items.

- VT4889-DOLLY** Dolly; doubles as protective front cover 11.4 kg, 25 lb.
- VT4889-COVER** Ballistic nylon and aluminum-reinforced 3.6 kg, 8 lb.
- VT4889-RIG** Set of (4) Hinge bars, includes (2) long/rear (set of four) and (2) short/front, including slider knobs for each short (front) hinge bar. 4.2 kg, 9.3 lb.

These accessories are also available for the VT4889 and VT4880.

- VT4889-AF** Array Frame for supporting VT4889 and/or VT4880 enclosures or for ground stacking either full-size model. Compatible with VT4889-1, VT4880.
- VT4889-SF** Short Frame for use on the bottom of larger VT4889 arrays, suspending special purpose arrays, or for ground stacking up to four VT4889 enclosures.
- VT4888-AF** Array Frame for supporting VT4888 or VT4882 enclosures, or for ground stacking either mid-size model.
- VT4888-SF** Short Frame for use on bottom of larger VT4888 or VT4882 arrays, suspending special purpose arrays, or for ground stacking either mid-size model.
- VT4880-ACC** Accessory Kit for subwoofer, with wheelboard/dolly plate, cover bag, and required suspension hinge bars.

Separately-ordered accessories for:

- VT4889-1, VT4880A, VT4888, VT4887A, VT4882 and VT4881A.**
- VT4889-1-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4889-1.
- VT4880A-ACC** Accessory kit for subwoofer, with wheelboard/dolly plate, and cover bag for one VT4880A (padded, protective).
- VT4888-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4888.
- VT4887-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4887.
- VT4882-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4882.
- VT4881-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4881.
- VT4887-AF** Array Frame for supporting VT4887A enclosures or VT4881A subwoofers, or for ground stacking compact models.
- VT4887-SF** Short Frame for use on bottom of larger VT4887A or VT4881A arrays, suspending special purpose arrays, or for ground stacking compact models.
- VT4800-CA** Compact Adaptor, use to suspend VT4887As or VT4881As from VT4888s.
- VT4800-DA** Downfill Adaptor, use to suspend up to 4 VT4887As from VT4880s, VT4889-1s or VT4880As.
- VT4800-UA** Universal Adaptor Frame. Use to suspend mid-size or compact models from either the VT4889 full-size arrays or VT4880 subwoofer arrays. Also compatible with VT4889-1 and VT4880A.

VERTEC line array elements are available with dolly wheelboards that double as a protective front plate, and reinforced, padded cover bags for maximum protection during handling and transport. Shown here on end, a VT4888 line array element with dolly and cover.



# spares kits

Available spares kits for models VT4889, VT4888 and VT4887A

- VT4889-MSP** (Mechanical Spares Kit, hardware parts). Order 1 for each 12 VT4889s used in portable/tour conditions.
- VT4889-ASP** (Acoustical Spares Kit, transducers). Order 1 for each 12 VT4889s used in portable/tour conditions.
- VT4888-MSP** (Mechanical Spares Kit, hardware parts). Order 1 for each 12 VT4888s used in portable/tour conditions.
- VT4888-ASP** (Acoustical Spares Kit, transducers). Order 1 for each 12 VT4888s used in portable/tour conditions.
- VT4887-MSP** (Mechanical Spares Kit, hardware parts). Order 1 for each 12 VT4887s used in portable/tour conditions.
- VT4887A-ASP** (Acoustical Spares Kit, transducers). Order 1 for each 12 VT4887As used in portable/tour conditions.

# VERTEC® DP Series

## Powered Line Array Systems



The JBL VERTEC DP Series is a suite of fully integrated audio systems coupling industry-leading loudspeaker technology to the innovative JBL DrivePack® technology platform. It's a breakthrough in power and control for self-powered systems. JBL's VERTEC DP Series delivers superb audio quality and robust power, perfectly matched to the enclosures, with comprehensive internal digital signal processing. Based on JBL's industry-leading VERTEC line array elements, these systems are lightweight, powerful, and cost-effective.

Designed in cooperation with development partners Crown and dbx, JBL DrivePacks are designed to exceed all expectations for loudspeaker performance, power handling and audio system control.

### INPUT MODULE & CONNECTIVITY

JBL DrivePacks are equipped with a modular input bay. Standard DPIP input modules from dbx feature analog audio inputs and sophisticated DSP technology incorporating digital pre-equalization filters, frequency-dividing networks, and limiter circuitry. Classic dbx Limiting functionality, dbx Type IV® analog-to-digital converters, and full bandpass and crossover configurations are all packed into the standard input module on every JBL DrivePack unit.

Optional networked input modules for remote control and monitoring are HiQNet-compatible.



Software Control Panel available in Harman Pro's HiQNet™ System Architect Software

### VT4888DP

The **VT4888DP** is a powered, mid-size Integrated Audio System housing two 12" woofers, four 5.5" midrange radiators and two high frequency compression drivers. It is equipped with a JBL DrivePack DP3 fully integrated power and DSP electronics package.

The VT4888DP is designed to deliver high-quality reinforcement of music and speech in a variety of applications including concert audio and corporate A/V presentations of all types for both portable users and fixed venue installations.

### VT4887ADP

The **VT4887ADP** is a powered, compact Integrated Audio System housing two 8" woofers, four 4" midrange radiators and two high frequency compression drivers. It is equipped with a JBL DrivePack DP2 fully integrated power and DSP electronics package.

The VT4887ADP is designed to deliver high-quality reinforcement of music and speech in a variety of applications including concert audio, corporate A/V and theatrical presentations of all types for both portable users and performance installations.

### VT4882DP

The **VT4882DP** is a powered, mid-size, centrally vented subwoofer enclosure housing two long extension 15" woofers and a JBL DrivePack DP3 fully integrated power and DSP electronics package.

The VT4882DP is designed to deliver high quality sound reinforcement of sub-low frequencies for live music and a variety of other applications. Typical uses include concert audio and multi-media presentations of all types. The VT4882DP is an ideal companion to VT4888 or VT4888DP mid-size full-range systems.

### VT4881ADP

The **VT4881ADP** is a powered, compact, vented sub-woofer enclosure housing one Ultra-Long Excursion 18" woofer and a JBL DrivePack DP1 fully integrated power and DSP electronics package.

The VT4881ADP is designed to deliver high quality sound reinforcement of VLF (Very Low Frequency) musical information for a variety of applications including concert audio, corporate A/V and theatrical presentations of all types. Ideal companion to VT4887ADP compact three-way systems.

# key features

- INTEGRATED DIGITAL SIGNAL PROCESSING
- JBL DRIVEPACK® ELECTRONICS PACKAGE
- AUTOMATIC SELECTION OF 50 or 60 Hz WORLDWIDE AC LINE VOLTAGES
- OPTIONAL NETWORK INPUT MODULES



**DPIP Standard Input Module with analog audio**



**DPAN Optional HiQnet Input Module with analog audio and ethernet connectivity**



**DPCN Optional HiQnet Input Module with CobraNet™, Digital audio, ethernet connectivity**

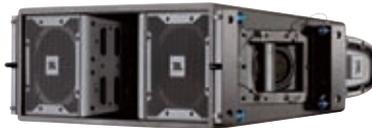


**VT4888DP Line Array Element**

MID-SIZE



**VT4882DP Subwoofer**



**VT4887ADP Line Array Element**

COMPACT



**VT4881ADP Subwoofer**

## accessories

Necessary accessories; order separately for VT4888DP, VT4887ADP, VT4882DP, VT4881ADP

**VT4888DP-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4888DP

**VT4882DP-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4882DP

**VT4887ADP-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4887ADP

**VT4881ADP-ACC** Dolly/wheelboard front plate and padded protective cover bag for one VT4881ADP

## specifications

	VT4888DP	VT4887ADP	VT4882DP	VT4881ADP
<b>SYSTEM TYPE</b>	Self-Powered Mid-size 3-way Line Array, Integrated Audio System	Self-Powered Compact 3-way Line Array, Integrated Audio System	Self-Powered Mid-size 2-15" Subwoofer, Integrated Audio System	Self-Powered Compact 1-18" Subwoofer, Integrated Audio System
<b>FREQUENCY RESPONSE</b>	60 Hz - 16 kHz (± 3 dB)	67 Hz - 20 kHz (± 3 dB)	32 Hz - 110 Hz (± 3 dB)	34 Hz - 125 Hz (± 3 dB)
<b>COVERAGE (H) -6 dB</b>	90° nominal	100° nominal		
<b>250 Hz - 16 kHz</b>				
<b>MAXIMUM PEAK OUTPUT</b>	139 dB, 1m	136 dB, 1m	133 dB SPL, 1m	131 dB SPL, 1m
<b>NOMINAL IMPEDANCE</b>	LF: 4 ohms MF: 8 ohms, HF: 16 ohms	LF: 4 ohms MF, HF: 8 ohms	LF: 8 ohms (Each transducer)	VLF: 4 ohms
<b>DRIVEPACK POWER RATING</b>	6000W Peak, 3000W Continuous	2200W Peak, 1100W Continuous	3400W Peak, 1700W Continuous	3600W Peak, 1800W Continuous
<b>TRANSDUCERS: LF</b>	2 x 2262H (12 in) (Dual-Coil)	2 x 2168H-1 (8 in) (Dual-Coil)	2 x 2266H (15 in) (Dual-Coil)	VLF 1 x 2269G (18 in) (Dual-Coil)
<b>MF</b>	4 x 2106H (5 1/2 in)	4 x 2104H (4 in)		
<b>HF</b>	2 x 2431H (1.5" exit compression driver)	2 x 2408H (1" exit compression driver)		
<b>ENCLOSURE</b>	Wedge Frustrum	Wedge Frustrum	Wedge Frustrum	Rectangular enclosure
<b>FINISH</b>	DuraFlex™	DuraFlex	DuraFlex	DuraFlex
<b>INPUT CONNECTORS</b>	Female XLR/Male XLR	Female XLR/Male XLR	Female XLR/Male XLR	Female XLR/Male XLR
<b>DIMENSIONS (H x W x D)</b>	355 x 1013 x 678 mm 14 x 39.9 x 26.7 in	279 x 787 x 563 mm 11 x 31 x 22.1 in	457 x 1013 x 1011 mm 18 x 39.9 x 39.8 in	569 x 787 x 800 mm 22.4 x 31 x 31.5 in
<b>NET WEIGHT (each)</b>	67.2 kg (148 lb)	39.7 kg (87.5 lb)	69.9 kg (154 lb)	62.2 kg (137 lb)

# Portable Products

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JBL  
PROFESSIONAL

## **EON. EON G2. PRX Series. JRX Series. MRX Series. SRX Series. VRX Series.**

An unbeatable line-up of portable sound reinforcement products from JBL Professional. Years of experience went into making these products. They're loaded with features brought over from JBL's high-end concert touring and live performance systems—features you won't find anywhere else.

PRX500 is truly more than the sum of its parts. JBL Differential Drive transducers matched with state-of-the-art Crown amplifiers deliver incredible performance at a fraction of the weight of other competitive products.

The JBL EON system is firmly entrenched as the industry leader in powered portable speaker systems. The EON G2 is the second generation of this most successful and influential professional speaker system. JBL Pro is making a great product even better with these new features: Expanded on-board mixing capability, more power, better sound and more resilient materials.

The advanced technology of VRX900 and SRX700 Series speakers delivers the power and performance you would expect from the highest quality, professional system. At the same time, JBL innovation and patented Differential Drive® speaker technology have reduced system weight dramatically while maintaining the highest level of performance available from a portable PA speaker.

Taking the lead from VRX900 and SRX700 Series speakers, MRX500 delivers extraordinary sound quality, power handling and performance at an affordable price level. Utilizing the same technology, the weight saving over traditional designs are significant, making MRX500 Series systems truly portable.

# EON®

## key features

- PURE TITANIUM DIAPHRAGM COMPRESSION DRIVERS
- THERMOMASTER® TOTAL THERMAL MANAGEMENT SYSTEM®
- PROPRIETARY DIFFERENTIAL DRIVE® LOW FREQUENCY TRANSDUCERS
- ATTACHMENT POINTS FOR FIXED-ANGLE AND ADJUSTABLE MOUNTING BRACKETS
- RUGGED, LIGHT WEIGHT POLYPROPYLENE ENCLOSURE
- INTEGRAL 35 MM POLE MOUNT RECEPTACLE
- ERGONOMICALLY DESIGNED HANDLES



EON 15P-1

The EON System is unlike any other system we've ever created. As a made-to-match system, all EON components are designed to give you hassle-free, professional sound quality and performance.

The secret behind EON's light weight is a rare earth material called neodymium with 10 times the magnetic strength of ceramic magnets, enabling a few ounces of neodymium to replace nearly 20 pounds of conventional magnetic materials.

For flexibility, the EON speakers are built to work as both upright speakers and wedge monitors. With ergonomic handles and light weight, they're remarkably easy to carry. Simple to set up. And a pleasure to use.



### EON 15P-1

The **EON 15P-1** is a two-way powered speaker system which incorporates a discrete 130 watt power amplifier for low frequencies and a 50 watt power amplifier for the high frequency driver in a light weight rugged enclosure. Designed for multi-purpose usage, the EON 15P-1 may be driven from a mixer or single microphone.

### EON 1500

The **EON 1500** features the same combination of light weight, portability and great sound as the other EON speakers, but is designed for use with a powered mixer or external amplifier. EON 1500 features proven JBL components like our liquid cooled compression driver and SonicGuard™ protection. EON 1500's unique design allows you to use them as a main speaker, tripod mounted or a floor monitor. The EON 1500 accepts a 1/4" phone jack or Speak-On input connection wired in parallel for ease of hookups.

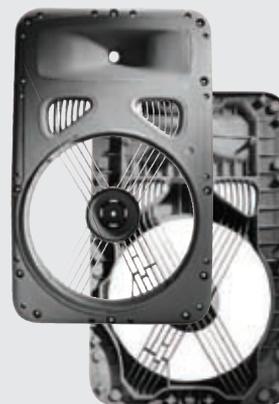


EON 1500

## specifications

	EON 15P-1	EON 1500
SYSTEM TYPE	Powered Two-way System	Two-way Speaker System
FREQUENCY RANGE	47 Hz - 18 kHz (-10 dB)	55 Hz - 16 kHz (-10 dB)
FREQUENCY RESPONSE	60 Hz - 17 kHz (-6 dB)	70 Hz - 16 kHz (-6 dB)
MAXIMUM SPL @ 1 m	127 dB, 1 m	128 dB, 1 m
POWER CAPACITY	50/130 W (Internal)	225 W
NOMINAL IMPEDANCE	(Internally bi-amped)	8 ohms
SENSITIVITY: 1 W, 1 m	(Internally bi-amped)	98 dB SPL
TRANSDUCERS: LF	380 mm (15 in)	380 mm (15 in)
HF	44 mm (1 3/4 in)	44 mm (1 3/4 in)
DISPERSION ANGLE	90° H x 60° V	90° H x 60° V
POWER AMP: LF	130 W, 0.1% THD	N/A
HF	50 W, 0.1% THD	N/A
DIMENSIONS (H x W x D)	686 x 430 x 444 mm	686 x 430 x 444 mm
NET WEIGHT (each)	27 x 17 x 17.5 in	27 x 17 x 17.5 in
	21 kg (47 lb)	17.24 kg (38 lb)

EON powered speakers feature a die cast aluminum baffle for superior heat dissipation and component integration



# EON® G2

Suspension kits are available for EON 10 and EON 15 speakers.



With more than 500,000 systems already being used in applications from live sound reinforcement, speech and vocals to music playback in entertainment, A/V and institutional environments, the JBL EON system is firmly entrenched as the industry leader in powered portable speaker systems. The EON G2 Series is the second generation of this most successful and influential professional speaker system.

## EON10 G2

The **EON10 G2** is a compact powered speaker with a 10" woofer and 175 watts total power. Weighing just 10.4 kg (23 lb), the EON10 G2 is extremely transportable and easy to handle. The built-in mini-mixer allows (for example) a microphone and a CD player to be plugged directly into the speaker for a simple, one-piece sound system. The EON10 G2 is ideal for AV applications, musical and speech reinforcement or DJ booth monitor, stage monitor and amplification of electronic instruments. For performances that require more low-frequency extension, add either EONSUB G2 or JRX118SP powered subwoofers.

The EON10 G2 has 125 watts for low frequencies and 50 watts for the highs. The 10" Differential Drive® low-frequency driver uses a neodymium magnet for light weight and reduced distortion. The one-inch JBL 2412 compression driver for the high frequencies includes a titanium diaphragm and ferro-fluid cooling.

## EON15 G2

The **EON15 G2** is the flagship of the series, delivering 300 watts of power to a 15" Differential Drive LF driver. The driver boasts a dual neodymium magnet and dual voice coil motor that efficiently delivers high output from a lightweight woofer. Meanwhile, the HF amplifier delivers 100 watts of power to a 1" exit titanium diaphragm compression driver with ferro-fluid cooling.

A built-in mixer with one Mic/Line input and two balanced (¼ inch TRS) line inputs provides flexibility and makes the EON15 G2 a great choice for electronic instrument or AV applications. An XLR output allows EON Speakers to be daisy-chained. As with other EON powered speakers, the EON15 G2 is kept cool by JBL's patented Thermomaster® Total Thermal Management System®. This system integrates the woofer frame, baffle, horn and amplifier heat-sink into a single aluminum casting. Fins in the port are cooled by air movement so the harder you push the system, the better it cools.

## EONSUB G2

The **EONSUB G2** offers powerful low frequencies in a compact, durable enclosure and a new low price. Combine the EONSUB G2 with the EON10 G2 for a full range sound system whose clarity, volume and low end are truly amazing, considering their small size. Because the power amp and crossover are internal to all EON speakers, set up time and outboard equipment are minimized.

The EONSUB G2 powered subwoofer is consistent in design with other EON G2 models. With 250 watts of low-end power and a frequency range of 40 to 200 Hz, EONSUB G2 is also an ideal companion for any sound system needing additional low end.

The SUB's cabinet was specifically designed to securely hold the EON10 G2 using receptacles built into the top of the cabinet.



The BRK10 and BRK15 adapt EON10 and EON15 models to the Omnimount™ 30.0 and 60.0 Series Brackets.

## EON G2 ACCESSORIES

<b>ESK15:</b>	Suspension kit for EON 15 models (Not for use with EON 1500)	<b>EONBRK10:</b>	Adapts EON 10" models to Omnimount™ 30.0 Series brackets
<b>ESK10:</b>	Suspension kit for EON 10 models	<b>EONBRK15:</b>	Adapts EON 15" models to Omnimount 60.0 Series brackets
<b>EON BRK1:</b>	Mounting bracket (fixed angle) for EON 15" models	<b>SS2-BK:</b>	Black anodized aluminum tripod speaker stand
<b>EON BRK2:</b>	Mounting bracket (fixed angle) for EON 10" models	<b>EON10 Bag-1:</b>	Zippered, plush-lined speaker bag for all EON 10" models
		<b>EON15 Bag-1:</b>	Zippered, plush-lined speaker bag for all EON 15" models
		<b>EON15 Bag/W-1:</b>	Wheeled, plush-lined speaker bag for all EON 15" models

# key features

- ▶ JBL'S PATENTED NEODYMIUM DIFFERENTIAL DRIVE® LF TRANSDUCERS
- ▶ PURE TITANIUM DIAPHRAGM COMPRESSION DRIVERS
- ▶ ENCLOSURE ANGLES FOR MANY APPLICATIONS
- ▶ LOOP/MIX OUTPUT FOR DAISY-CHAINING SPEAKERS OR SENDING SIGNAL TO A MAIN PA
- ▶ THERMOMASTER® TOTAL THERMAL MANAGEMENT SYSTEM®
- ▶ ATTACHMENT POINTS FOR FIXED-ANGLE AND ADJUSTABLE MOUNTING BRACKETS



The cabinet of the EON10 G2 has been designed to fit securely atop the EONSUB G2 for added volume and extended bandwidth.



A variety of zippered, plush-lined speaker bags are available for EON Products.



EONSUB G2



EON10 G2 (Monitor Position)



EON15 G2



# specifications

	EON10 G2	EON15 G2	EONSUB G2
SYSTEM TYPE	10" Two-way Speaker System	15" Two-way Speaker System	Powered Subwoofer
FREQUENCY RANGE	65 Hz - 18 kHz (-10 dB)	39 Hz - 18 kHz (-10 dB)	40 Hz - 200 Hz (-10 dB)
FREQUENCY RESPONSE	90 Hz - 16 kHz (± 3 dB)	42 Hz - 17 kHz (± 3 dB)	42 Hz - 150 Hz (± 3 dB)
RATED MAXIMUM SPL	117 dB @ 1 m	129 dB @ 1 m	117 dB @ 1 m
TRANSDUCERS: LF	254 mm (10 in)	380 mm (15 in)	380 mm (15 in)
HF	JBL 2412 (1 in)	JBL 2418 (1 in)	
DISPERSION ANGLE	90° H x 60° V	90° H x 60° V	
LF POWER AMP	125 W @ driver impedance	300 W @ driver impedance	250 W @ driver impedance
HF POWER AMP	50 W @ driver impedance	100 W @ driver impedance	
DIMENSIONS (H x W x D)	493 x 356 x 307 mm	686 x 430 x 444 mm	686 x 430 x 444 mm
NET WEIGHT (each)	10.4 kg (23 lb)	27 x 17 x 17.5 in 21 kg (46 lb)	27 x 17 x 17.5 in 19.5 kg (43 lb)

# E-Systems



E-SYSTEM 15

Pre-packaged, complete sound reinforcement systems featuring JBL EON powered speakers, Soundcraft E-Series mixing consoles, and AKG microphones. A complete sound reinforcement system so good that no one company could build it all.

## E-System 15

**E-System 15** starts with the second generation of the speaker that started the powered-speaker revolution – the JBL EON15 G2 featuring 400 watts of bi-amplified power (300 watts for low frequencies and 100 watts for high frequencies). The EON15 G2 is at home as a main PA speaker or as a vocal or instrument monitor.

Then add a Soundcraft EPM8 mixer with that great British sound and these features:

- 8 mono input channels plus two stereo inputs
- 2 aux sends, each globally switchable pre or post fader
- Internal power supply
- Simple rack mounting options
- 3-band EQ with swept mid band
- Precision, ultra-linear mic pre-amps
- True, professional +48V phantom power
- Individual channel mutes

## E-System 10

The JBL EON10 G2 weighs in at only 10.4 kg (23 lb) but proves that you don't need size and weight to get quality. With 175 watts of bi-amplified power (125 watts for low frequencies and 50 watts for high frequencies) the EON10 G2 is the choice for moderate-level performance.

Add a Soundcraft EPM6 mixer:

- 6 mono input channels plus two stereo inputs
- 2 aux sends, each globally switchable pre or post fade
- Internal power supply
- Simple rack mounting options
- 3-band EQ with swept mid band
- Precision, ultra-linear mic pre-amps
- True, professional +48V phantom power
- Individual channel mutes

## MICROPHONES

To complete the systems, a pair of AKG D88S microphones is included. These handheld, dynamic, hypercardioid microphones are at home in a variety of sound reinforcement applications for speech, vocals and instruments. Rounding out the system are four 25' XLR cables to hook it all together.

# key features

- COMPLETE, TURN-KEY SYSTEMS WITH COMPLEMENTARY COMPONENTS
- WIDE RANGE OF APPLICATIONS
- VERSATILE ENCLOSURE ANGLES
- FEATURE-PACKED SOUNDRAFT MIXERS



E-SYSTEM 10

# specifications

## Soundcraft EPM Mixing Consoles



- AKG D885**
- TYPE: Dynamic Microphone
  - FREQUENCY RANGE: 40 - 20 kHz
  - POLAR PATTERN: Supercardioid
  - SENSITIVITY @ 1000 Hz: 2.5 mV/Pa
  - IMPEDANCE: 300 ohms
  - CONNECTOR: 3-pin male XLR
  - FINISH: Matte black zinc/alloy diecast
  - WEIGHT: 260 g (9.2 oz)

INPUT CHANNELS	MIC/LINE, MONO: 6 (EPM6); 8 (EPM8) Line, Stereo: 2
AUXILIARY SENDS	2, globally selectable, pre/post
NOISE (22 Hz-22 kHz): MIC EIN MIX	128 dBu (max gain, 150 ohms source impedance) < -85 dBu (@ max, faders down)
CROSSTALK	> 96 dB (Channel mute) > 96 dB (Fader cut-off [rel +10 mark]) > 86 dB Aux send pot offness
FREQUENCY RESPONSE	20 Hz - 20 kHz ( $\pm 0.5$ dB) (Mic/Line input to any output)
THD+ NOISE	< 0.007% (Mic gain 30 dB, -30 dBu input Mix out, fader max @ 1kHz)
INPUT & OUTPUT IMPEDANCES	Mic input: 2.5 kohms Line input: 11 kohms Stereo input: 100 kohms Outputs: 75 ohms
INPUT AND OUTPUT LEVELS	Mic input max level: +17 dBu Line input max level: +30 dBu Stereo input max level: +30 dBu Mix output max level: +20 dBu Headphones (@ 200 ohms): 300 mW
EQ (MONO INPUTS)	Lo: 80 Hz shelving $\pm 15$ dB Mid (sweep): 140 Hz - 3 kHz $\pm 15$ dB, Q-1.5 High: 12 k $\pm 15$ dB
EQ (STEREO INPUTS)	Lo: 80 Hz shelving $\pm 15$ dB High: 12 k $\pm 15$ dB
WEIGHT	EPM6: 5.75 kg (12.68 lb) EPM8: 6.75 kg (14.88 lb)
DIMENSIONS: WIDTH	EPM6: 375.6 mm (14.79 in) EPM8: 426.44 mm (16.79 in)
HEIGHT	EPM6 & EPM8: 95.11 mm (3.74 in)
DEPTH	EPM6 & EPM8: 451.43 mm (17.77 in)
RACK MOUNTING	EPM6: Requires Soundcraft Part # P-S20000D-01 EPM8: Requires Soundcraft Part # P-S20001D-01



SOUNDRAFT EPM-8 MIXER

# PRX500 Series

By considering every element in each system and its contribution to the final application PRX500 redefines high performance portable PA.



PRX525

PRX515

PRX535

PRX512M

PRX512M

PRX518S

## PRX500

S E R I E S

Through design, PRX500 delivers the power, performance and simplicity you need in a package that's been designed for flexibility, reliability and ease-of-use.

**TRUE PORTABILITY:** The PRX500 Series enclosures were designed for maximum ease of transport: engineered enclosures, light weight components, protective end-caps and ergonomic handles. Each element has been critically designed to make a high performance self-powered portable PA that's actually portable.

# key features

- BUILT-IN MULTI-CHANNEL CROWN® CLASS-D DIGITAL AMPLIFIER
- FULLY-FEATURED INPUT SECTION WITH PROPRIETARY DSP
- USER SELECTABLE SYSTEM EQ
- ILLUMINATED LOGO FOR CLEAR POWER-ON STATUS
- JBL DIFFERENTIAL DRIVE® WOOFERS
- NEODYMIUM COMPRESSION DRIVERS



Using the latest mechanical design software and material implementation, the PRX500 enclosures have been designed to withstand abuse without compromising on aesthetics and or adding unnecessary weight.



Using a highly efficient Class D amplifier topology, Crown designed a high performance lightweight power solution for PRX500. Ultra compact and less than 9 lb, the amplifier is capable of producing up to 500 watts.



A new range of 400 watt Differential Drive transducers are a perfect match for the PRX500 systems, with extended frequency response, high power output, minimum distortion and at a fraction of the weight of traditional designs.

## FLEXIBILITY & SELECTION

The amplifier input panel offers XLR or 1/4 inch jack compatibility and a sensitivity switch provides extra flexibility making it possible to connect literally any sound source without using a mixer. All full - range models feature two frequency response settings; "FLAT" for maximum accuracy and reproduction and "BOOST" for extra low frequency weight and highs that will brighten pre-recorded material and enhance any program at lower play-back levels. The PRX512M is unique, as each selectable frequency response setting has been optimized for use as either a front of house speaker, or a dedicated floor monitor, without compromise.

### PRX512M

The PRX512M is the most compact and versatile speaker in the PRX500 Series. It has been designed to deliver the most performance for its weight and size as both a stage monitor and a front of house main PA. Two user selectable EQ settings are provided to optimize the system for either application. With a dual socket pole mount, the PRX512M is a perfect match with a PRX518S subwoofer.

### PRX515

The PRX515 offers the perfect balance between size and performance. For applications requiring full bandwidth sound reproduction using only a pair of speakers, the PRX515 delivers the optimum balance. For live music, recorded music playback and speech the user has the option of tailoring the EQ, "flat" for speech intelligibility or for use with a sub, and "boost" for enhanced bass and crisp highs in recorded music playback.

### PRX 525

The PRX 525 is optimal for situations requiring fast set-up and full bandwidth output. With two 15" woofers, the PRX525's performance makes the use of a subwoofer unnecessary in many live music and playback applications. As with all of the PRX full-range models, user selectable EQ is provided, and a direct microphone input option.

### PRX 535

The PRX535 is a self-powered, lightweight 3-way loudspeaker system capable of delivering a very high level of performance. With a horn loaded midrange, pattern control is maintained to a much lower frequency resulting in exceptional clarity and uniform sonic projection over the defined coverage area making it ideal for applications where the program material has many subtle nuances that are critical to the performance.

### PRX 518S

The PRX518S offers the performance of an 18" subwoofer in a package not much larger than a typical 15" sub. With a pole receptacle (that accepts a SS3-BK) on the top panel and integrated stereo pass-thru, with digital cross-over, this is the perfect compliment to the PRX500 full-range systems. Configured with a PRX512M or PRX515; the result is a highly transportable, high performance sub-satellite system. The addition of a polarity reverse option further enables system optimization.



The fusion of world leading JBL Differential Drive® transducers matched with the power of a multi-channel Crown class-D amplifier delivers all the PRX500 power and performance at about 30% less weight than competitive products.

# PRX500 Series

# PRX500 S E R I E S



PRX525

PRX535

PRX518S

PRX515

PRX512M

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## specifications

	PRX512M	PRX515	PRX525	PRX535	PRX518S
<b>SYSTEM TYPE</b>	Self Powered 12" Two-way Bass-reflex	Self Powered 15" Two-way Bass-reflex	Self Powered Dual 15" Two-way Bass-reflex	Self Powered 15" Three-way Bass-reflex	Self Powered 18" Bass-reflex Subwoofer
<b>FREQUENCY RANGE</b>	46 Hz - 20k Hz (-10 dB) EQ Main 60 Hz - 20k Hz (-10 dB) EQ Monitor	45 Hz - 20 kHz (-10 dB)	45 Hz - 20 kHz (-10 dB)	39 Hz - 20 kHz (-10 dB)	37 Hz - 140Hz (-10 dB)
<b>FREQUENCY RESPONSE</b>	76 Hz - 20k Hz (± 3 dB) EQ Main 90 Hz - 20k Hz (± 3 dB) EQ Monitor	52 Hz - 20 kHz (± 3 dB)	52 Hz - 20 kHz (± 3 dB)	46 Hz - 20 kHz (± 3 dB)	52Hz - 110 Hz (± 3 dB)
<b>SYSTEM POWER RATING</b>	500W Cont/1000W Peak	500W Cont/1000W Peak	650W Cont/1300W Peak	650W Cont/1300W Peak	500W Cont/1000W Peak
<b>POWER AMP</b>	LF: 400W / HF: 100W	LF: 400W / HF: 100W	LF1: 275W / LF2: 275W / HF: 100W	LF: 450W / MF: 150W / HF: 100W	LF: 500W
<b>MAXIMUM SPL @ 1 m<sup>1</sup></b>	134 dB SPL peak	133 dB SPL peak	135 dB SPL peak	134 dB SPL peak	129 dB SPL peak
<b>COVERAGE PATTERN</b>	70° x 70° nominal	70° x 70° nominal	70° x 70° nominal	90° x 50° nominal	
<b>TRANSDUCERS: LF</b>	1 x JBL 262F 380 mm (12 in)	2 x JBL 265F 380 mm (15 in)	2 x JBL 265F 380 mm (15 in)	1 x JBL 265F 380 mm (15 in)	1 x JBL 2044E 460 mm (18 in) woofer
<b>MF</b>				1 x JBL 195H 165 mm (6.5 in) woofer	
<b>HF</b>	1 x JBL 2408H 37.5 mm (1.5 in) driver	1 x JBL 2408H 37.5 mm (1.5 in) driver	1 x JBL 2408H 37.5 mm (1.5 in)	1 x JBL 2408H 37.5 mm (1.5 in) driver	
<b>ENCLOSURE</b>	Trapezoidal, 18mm Plywood	Trapezoidal, 18mm Plywood	Trapezoidal, 18mm Plywood	Trapezoidal, 18mm Plywood	Rectangular, 18mm Plywood
<b>FINISH</b>	Anthracite DuraFlex™	Anthracite DuraFlex	Anthracite DuraFlex	Anthracite DuraFlex	Anthracite DuraFlex
<b>INPUT CONNECTORS</b>	Balanced XLR / 1/4 in combo jack	Balanced XLR / 1/4 in combo jack	Balanced XLR / 1/4 in combo jack	Balanced XLR / 1/4 in combo jack	Balanced XLR / 1/4 in combo jack
<b>DIMENSIONS (H x W x D)</b>	650 x 380 x 350 mm 25.5 x 15.0 x 14 in	815 x 440 x 465 mm 32 x 17.25 x 18.25 in	1300 x 440 x 465 mm 51 x 17.25 x 18.25 in	1070 x 440 x 465 mm 42 x 17.25 x 18.25 in	725 x 535 x 610 mm 28.5 x 21 x 24 in
<b>NET WEIGHT (each)</b>	18 kg (40 lb)	26 kg (57 lb)	38 kg (84 lb)	33.5 kg (74 lb)	36 kg (79 lb)

<sup>1</sup> Maximum Peak output measured with IEC pink noise at 1 meter in front of speaker baffle under free space conditions. Measurement instrument set to peak hold. Speaker muted and released at full power, recording maximum peak level.

# key features

- BUILT-IN MULTI-CHANNEL CROWN® CLASS-D DIGITAL AMPLIFIER
- FULLY-FEATURED INPUT SECTION WITH PROPRIETARY DSP
- USER SELECTABLE SYSTEM EQ
- ILLUMINATED LOGO FOR CLEAR POWER-ON STATUS
- JBL DIFFERENTIAL DRIVE® WOOFERS
- NEODYMIUM COMPRESSION DRIVERS



Using the latest mechanical design software and material implementation, the PRX500 enclosures have been designed to withstand abuse without compromising on aesthetics and or adding unnecessary weight.



Using a highly efficient Class D amplifier topology, Crown designed a high performance lightweight power solution for PRX500. Ultra compact and less than 9 lb, the amplifier is capable of producing up to 500 watts.



A new range of 400 watt Differential Drive transducers are a perfect match for the PRX500 systems, with extended frequency response, high power output, minimum distortion and at a fraction of the weight of traditional designs.

## FLEXIBILITY & SELECTION

The amplifier input panel offers XLR or 1/4 inch jack compatibility and a sensitivity switch provides extra flexibility making it possible to connect literally any sound source without using a mixer. All full - range models feature two frequency response settings; "FLAT" for maximum accuracy and reproduction and "BOOST" for extra low frequency weight and highs that will brighten pre-recorded material and enhance any program at lower play-back levels. The PRX512M is unique, as each selectable frequency response setting has been optimized for use as either a front of house speaker, or a dedicated floor monitor, without compromise.

### PRX512M

The PRX512M is the most compact and versatile speaker in the PRX500 Series. It has been designed to deliver the most performance for its weight and size as both a stage monitor and a front of house main PA. Two user selectable EQ settings are provided to optimize the system for either application. With a dual socket pole mount, the PRX512M is a perfect match with a PRX518S subwoofer.

### PRX515

The PRX515 offers the perfect balance between size and performance. For applications requiring full bandwidth sound reproduction using only a pair of speakers, the PRX515 delivers the optimum balance. For live music, recorded music playback and speech the user has the option of tailoring the EQ, "flat" for speech intelligibility or for use with a sub, and "boost" for enhanced bass and crisp highs in recorded music playback.

### PRX 525

The PRX 525 is optimal for situations requiring fast set-up and full bandwidth output. With two 15" woofers, the PRX525's performance makes the use of a subwoofer unnecessary in many live music and playback applications. As with all of the PRX full-range models, user selectable EQ is provided, and a direct microphone input option.

### PRX 535

The PRX535 is a self-powered, lightweight 3-way loudspeaker system capable of delivering a very high level of performance. With a horn loaded midrange, pattern control is maintained to a much lower frequency resulting in exceptional clarity and uniform sonic projection over the defined coverage area making it ideal for applications where the program material has many subtle nuances that are critical to the performance.

### PRX 518S

The PRX518S offers the performance of an 18" subwoofer in a package not much larger than a typical 15" sub. With a pole receptacle (that accepts a SS3-BK) on the top panel and integrated stereo pass-thru, with digital cross-over, this is the perfect compliment to the PRX500 full-range systems. Configured with a PRX512M or PRX515; the result is a highly transportable, high performance sub-satellite system. The addition of a polarity reverse option further enables system optimization.



The fusion of world leading JBL Differential Drive® transducers matched with the power of a multi-channel Crown class-D amplifier delivers all the PRX500 power and performance at about 30% less weight than competitive products.

# MRX500 Series

# MRX500

S E R I E S



Constantly pushing the threshold for better, more useful products for the working musician and DJ, JBL Professional once again hits the target with the all new MRX500 Series Loudspeaker System. Compact, lightweight, truly portable, the MRX500 is the ultimate PA system for musicians and DJ's who need fully professional sound and performance within a budget.

Taking a lead from the SRX700 Professional Loudspeaker System, these new components deliver extraordinary sound quality, power handling and performance yet, due to JBL's advanced engineering, benefit from a significant weight savings over traditional designs. The result is a speaker system that will perform well beyond any other system in its class.

Featuring as much as 30% less weight than comparable systems, the MRX was designed from the ground up by JBL engineers utilizing brand new lightweight JBL Differential Drive® transducer technology, engineered for this application. Drawing on the vast engineering excellence established with the industry standard and road proven VERTEC® Professional Loudspeaker Series, the MRX delivers outstanding performance for the DJ and musician where a smaller, lighter, more portable system is required with no sacrifice in sound quality or durability. Specifically engineered for MRX and completing the design, a series of rugged plywood enclosures, covered with JBL's DuraFlex™ finish, a tough, textured scratch resistant surface, that ensures years of solid performance and professional good looks.

## key features

- DIFFERENTIAL DRIVE® LF TRANSDUCERS
- ANNULAR POLYMER DIAPHRAGM COMPRESSION DRIVERS
- HEAVY DUTY 16 GAUGE PROTECTIVE SCREEN-BACKED STEEL GRILLE
- TOUGH DURAFLEX™ FINISH



The dual angle pole mount allows the speaker to be mounted in a vertical position or with a 10° down tilt for optimum audience coverage.



The Differential Drive® Transducers are perfectly matched to the annular polymer diaphragm compression driver for superior sound quality and power handling in a lightweight package.



The 16-gauge steel grille, with an acoustically transparent screen for additional driver protection, wraps around the sides of the enclosure. All cabinets are finished in DuraFlex™ for ruggedness.

### DIFFERENTIAL DRIVE TRANSDUCERS

JBL Professional designed a brand new range of 400W Differential Drive® transducers in 12" and 15" configurations, perfectly matched to the brand new 1.5" annular polymer diaphragm compression driver producing a transducer engine that weighs significantly less than traditional transducer designs, yet their performance, sound quality and power handling are extraordinary.

### CUSTOM WAVEGUIDES

The constant beamwidth and power response of MRX500's custom designed waveguide is perfectly matched to its direct radiating woofers which ensures superb coverage throughout the frequency range of the system.

### ENGINEERED ENCLOSURES

Combining mechanical design expertise, new materials and a DuraFlex™ finish, MRX500 enclosures have been optimized for minimum weight and maximum ruggedness.

### PROVEN NETWORKS

Utilizing years of design experience, MRX networks are built using proven components in the most sophisticated topologies in their class. For maximum reliability, all input and loop-thru connections are made via Neutrik® NL4MP connectors. In addition, the input connections can be easily reconfigured on the subs, for an efficient sub/sat cabling option.

### DUAL ANGLE POLE MOUNT

The dual angle pole mount on the MRX512M and MRX515 offers much more control than the typical single mount. With a 10° down angle the speaker can be directed down toward your audience, keeping the energy off the back wall enhancing coverage and clarity.

### MRX512M

The **MRX512M** is a premium, utility/monitor speaker using a JBL 262H 305 mm (12 in) Differential Drive® woofer and a 2408H 37.5 mm (1.5 in) annular polymer diaphragm, neodymium compression driver for 400 watts (continuous) power capacity. A 70° x 70° horn provides smooth, even coverage whether used in the vertical (mains) or horizontal (monitor) orientation. NL4 connectors are provided on both ends of the speaker. A passive network provides accurate reproduction throughout the cross-over region. JBL's dual angle pole mount is included.

### MRX515

The **MRX515** is high-power, lightweight two-way loudspeaker system offering a very high level of performance from a speaker that can be placed on a pole or standard speaker tripod stand. The MRX515 is comprised of a 380 mm (15 in) 265H Differential Drive® woofer which handles 400 watts (continuous) yet the entire system weighs only 19.5 kg (43 lbs). For the high frequencies, the 2408H 37.5 mm (1.5 in) annular polymer diaphragm, neodymium compression driver is mounted to a 70° x 70° horn. JBL's dual angle pole mount is included.

### MRX525

The **MRX525** is comprised of two 380 mm (15 in) 265H Differential Drive® woofers with combined power handling of 800 watts (continuous). For the high frequencies, 2408H 37.5 mm (1.5 in) annular polymer diaphragm, neodymium compression driver is mounted to a 70° x 70° horn. The 70° coverage angle of the MRX525 is wide enough to provide coverage of an audience when used one-per-side yet narrow enough to allow splaying of multiple enclosures without excessive coverage overlap.

For simplicity, a pair of MRX525s and a single, high-power amplifier is a complete sound system capable of reinforcing bass and kick drum or playing high-level music in clubs and other venues.

### MRX518S

The **MRX518S** is a compact, high power subwoofer system containing one 2044G 457 mm (18 in) woofer in a front-loaded, vented enclosure. The enclosure is designed to present a minimum frontal area.

The system offers complete input connection flexibility for compatibility with a variety of cabling schemes. The input panel incorporates a pair of Neutrik® Speakon® NL-4 connectors wired in parallel. The MRX518S is supplied with pins +1/-1 connected to the woofer. This may be easily reconfigured to work with cabling systems intended to drive subwoofers on pins +2/-2.

For "Subwoofer/Satellite" configurations, the MRX518S is equipped with a top-mounted, 35 mm pole mount socket that can receive the optional S53-BK pole. This can be used to mount speakers equipped with standard 36 mm pole sockets and weighing up to 50 kg (100 lbs).

### MRX528S

The **MRX528S** is a compact, high power subwoofer system containing two 2044H 457 mm (18 in) woofers in a front-loaded, vented enclosure. The enclosure is designed to present a minimum frontal area. It is also configured in an upright format to permit the convenient stacking of full-range enclosures on top without the need for an additional pole.

The system offers complete input connection flexibility for compatibility with a variety of cabling schemes. The input panel incorporates a pair of Neutrik® Speakon® NL-4 connectors wired in parallel. The MRX528S is supplied with pins +1/-1 connected to the woofer. This may be easily reconfigured to work with cabling systems intended to drive subwoofers on pins +2/-2.

# MRX500 Series



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## specifications

	MRX512M	MRX515	MRX525	MRX518S	MRX528S
<b>SYSTEM TYPE</b>	12" Two-way Stage Utility/Monitor Speaker	15" Two-way Bass-reflex	Dual 15" Two-way Bass-reflex	18" Bass-reflex Subwoofer	Dual 18" Bass-reflex Subwoofer
<b>FREQUENCY RANGE</b>	60 Hz - 20k Hz (-10 dB)	52 Hz - 20 kHz (-10 dB)	40 Hz - 20 kHz (-10 dB)	40 Hz - 200 Hz (-10 dB)	35 Hz - 250 Hz (-10 dB)
<b>FREQUENCY RESPONSE</b>	90 Hz - 20k Hz (± 3 dB)	65 Hz - 20 kHz (± 3 dB)	57 Hz - 20 kHz (± 3 dB)	45 Hz - 200 Hz (± 3 dB)	40 Hz - 250 Hz (± 3 dB)
<b>SENSITIVITY: 1 W, 1 m</b>	94 dB SPL	98 dB SPL	100 dB SPL	100 dB SPL <sup>3</sup>	103 dB SPL <sup>3</sup>
<b>NOMINAL IMPEDANCE</b>	8 ohms	8 ohms	4 ohms	4 ohms	4 ohms
<b>POWER RATING<sup>1</sup></b> Continuous/Program/Peak	400 W / 800 W / 1600 W, 2 hrs 350 W / 700 W / 1400 W, 100 hrs	400 W / 800 W / 1600 W, 2hrs 350 W / 700W/1400 W, 100 hrs	800 W / 1600 W / 3200 W, 2 hrs 700 W / 1400 W / 2800 W, 100 hrs	500 W / 1000 W / 2000 W, 2 hrs 400 W / 800 W / 1600 W, 100 hrs	1000 W / 2000 W / 4000 W, 2 hrs 800 W / 1600 W / 3200 W, 100 hrs
<b>MAXIMUM SPL @ 1 m</b>	123 dB SPL cont / 129 dB SPL peak <sup>2</sup>	124 dB SPL cont / 130 dB SPL peak <sup>2</sup>	129 dB SPL cont / 135 dB SPL peak <sup>2</sup>	127dB SPL cont / 133 dB SPL peak <sup>3</sup>	133 dB SPL cont / 139 dB SPL peak <sup>3</sup>
<b>COVERAGE PATTERN</b>	70° x 70° nominal	70° x 70° nominal	70° x 70° nominal		
<b>TRANSDUCERS: LF</b>	1 x JBL 262H 305 mm (12 in)	1 x JBL 265H 380 mm (15 in)	2 x JBL 265H 380 mm (15 in)	1 x JBL 2044G 457 mm (18 in)	2 x JBL 2044H 457 mm (18 in)
<b>HF</b>	1 x JBL 2408H 37.5 mm (1.5 in)	1 x JBL 2408H 37.5 mm (1.5 in)	1 x JBL 2408H 37.5 mm (1.5 in)		
<b>FINISH</b>	DuraFlex™	DuraFlex	DuraFlex	DuraFlex	DuraFlex
<b>INPUT CONNECTORS</b>	Neutrik® NL4MP	Neutrik NL4MP	Neutrik NL4MP	Neutrik NL4MP	Neutrik NL4MP
<b>DIMENSIONS</b> (H x W x D)	645 x 380 x 345 mm 25.25 x 15.0 x 13.5 in	700 x 435x 470 mm 27.25 x 17.5 x 18.5 in	1240 x 535 x 460 mm 48.75 x 21 x 18 in	560 x 535 x 700 mm 22 x 21 x 27.5 in	1095 x 535 x 700 mm 43 x 21 x 27.5 in
<b>NET WEIGHT (each)</b>	14.9 kg (33.0 lb)	19.5 kg (43 lb)	38.2 kg (84 lb)	32.5 kg (72 lb)	55 kg (121 lb)

<sup>1</sup> IEC standard, full bandwidth pink noise with 6 dB crest factor for specified period.

<sup>2</sup> Calculated based on power rating and sensitivity.

<sup>3</sup> Calculated on half space condition.

# SRX700® Series



## SRX700 S E R I E S

For over a decade, JBL SR and SRX series speakers have represented the best performance, highest quality, and most advanced driver technology available to portable PA users. The SRX700 series continues that tradition and moves the bar even higher.

The advanced technology of SRX700 series speakers delivers the power and performance you would expect from the highest quality, professional systems. At the same time, JBL innovation and design have reduced system weight so load in and load out are a breeze. All this performance is housed in rugged JBL enclosures for years of superb performance.

SRX700 uses JBL's patented Differential Drive® woofers with neodymium magnets. Neodymium's magnetic properties allow a few ounces to replace pounds of conventional magnet material. While other speaker manufacturers may use neodymium, JBL engineers created a design that reduces the massive (and heavy) steel top plates, back plates, and pole pieces that complete the "magnetic circuit". The JBL Differential Drive design uses two voice coils for greater power handling and actually puts the small neodymium magnets inside the voice coil. This design greatly reduces weight while increasing power capacity, decreasing distortion, and reducing power compression.

The SRX700 line consists of seven models, each with distinct characteristics and applications. If your requirement is for high-performance PA, there's an SRX700 model for you.

# SRX700® Series



All SRX700 two and three-way models may be operated full-range or bi-amplified. The selection is made by means of a high-current, recessed switch mounted on the input plate. (SRX738 uses internal jumpers.) The same switch arrangement is used on the subwoofer to select  $\pm 1$  or  $\pm 2$  operation.



Flying versions of the SRX700 two and three-way models are also available as SRX700F models. These offer you the option of selecting economical, forged eyebolts for fixed installation or the convenience of detachable track fittings for portable applications. Just choose the hardware kit that's right for your application.

## SRX712M – 12" two-way stage monitor

The **SRX712M** was designed with one goal – build the lightest, smallest, loudest clearest stage monitor possible while delivering a strikingly professional appearance. The SRX712M uses a 12" Differential Drive® woofer and a 3" (voice coil diameter) compression driver. The system handles 800 watts (continuous) power yet is only 12" high (305 mm) in the monitor position. A 50° x 90° horn provides smooth, even coverage regardless of the position of the performer.

For utility speaker applications, the SRX712M can be tripod mounted or over a subwoofer with JBL's dual angle pole mount providing 0° or 10° down tilt for optimum audience coverage.

For suspension or truss mounting, the optional SRX712M-YK yoke bracket is available with attachment points for a wide range of suspension and truss mounting hardware.

## SRX715 – 15" two-way

The **SRX715** offers the highest level of performance available from a portable pole or tripod mountable speaker. Equipped with a 2265H Differential Drive woofer, the SRX715 handles 800 watts (continuous) while weighing only 48 lb (22 kg). A 2431H 3" diaphragm, neodymium compression driver on a 75° by 50° horn makes the SRX715 the best choice for general purpose sound reinforcement, live performance, music playback or speech. When the application calls for increased low-frequency extension, add the SRX728S or SRX718S subwoofer.

## SRX722 – Dual 12" two-way

Taking a page from high performance automobile design, JBL filled the smallest possible cabinet with the highest possible power capacity. Especially suited for subwoofer-equipped systems, the **SRX722** delivers very high acoustic output from a compact, easily transported system. A pair of 2262H Differential Drive woofers handles 1200 watts (continuous) of power. Top these off with the world-class, 2452H 4" compression driver, and you have big PA performance that fits easily into a sport utility vehicle.

## SRX725 – Dual 15" two-way

For the ultimate in performance and simplicity, a pair of **SRX725s** and a single, high-power amplifier delivers superb high-level music and powerful bass. A pair of JBL 2265H Differential Drive drivers handles an amazing 1200 watts of continuous power. The 2452H 4" compression driver, respected worldwide as one of the finest high-powered transducers made, provides smooth, clear mids and highs. Despite this performance, the SRX725 weighs only 100 lb (45 kg).

## SRX718S – 18" subwoofer

The **SRX718S** subwoofer's compact design is equally at home as a small, high performance satellite subwoofer system or as a building block for larger subwoofer arrays. The 13-ply birch enclosure is rigidly braced for solid response.

A top-mounted, M20 threaded pole receptacle is used to ensure that even heavier, high-power satellite speakers can be securely mounted using the optional, adjustable SS4-BK speaker pole. Threaded insert points are provided for attachment of the optional WK-4 wheel kit.

## SRX728S – Dual 18" subwoofer

The **SRX728S** is built to deliver smooth, clean, accurate low-end. A pair of 18" Differential Drive woofers provide extension down to 27 Hz while handling an amazing 1600 watts of continuous power. Large, open ducts minimize port turbulence and the heavily braced enclosure assures tight, solid bass. An external switch allows the SRX728S to be used with cabling systems designed to power subs from contacts  $\pm 1$  or  $\pm 2$ .

## SRX738 – 18" three-way

Combining the performance of a subwoofer/satellite system with single-enclosure ease-of-use, the **SRX738** uses a 2268H 18" Differential Drive woofer for world-class low-end performance, even without a sub. Mids are handled by a 2169H 8" driver using JBL's CMCD™ Cone Midrange Compression Driver technology that provides very low midrange distortion, increased sensitivity, extended bandwidth and improved phase coherence. The high frequency driver is mounted to a 60° x 40° waveguide hosting a 3" (voice coil) 2431H high-frequency driver.

Ideally suited to sound reinforcement and music playback use where low-frequency extension, midrange clarity and projection are critical, mobile DJs and musicians will appreciate the simplicity and performance of the SRX738. Sound companies will also find the SRX738 to be a flexible addition to their arsenals.

The SRX738 may be used in full-range or bi-amplified modes with a passive cross-over handling the transition from the mid-range to the high-frequency driver.

# SRX700 SERIES

## key features

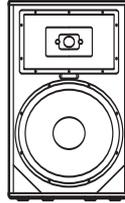
- PATENTED DIFFERENTIAL DRIVE® WOOFERS WITH NEODYMIUM MAGNETS
- HIGH-POWER, LIGHT WEIGHT LOW FREQUENCY DRIVERS
- CONSTRUCTED OF TOP QUALITY BIRCH PLYWOOD AND COATED WITH DURAFLEX™
- WRAP-AROUND 16-GAUGE STEEL GRILL LINED WITH ACOUSTICALLY TRANSPARENT FOAM

## specifications

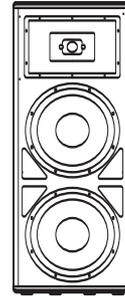


SRX712M

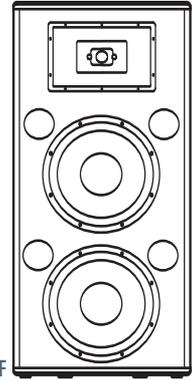
SRX715  
SRX715F



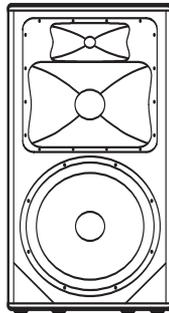
SRX722  
SRX722F



SRX725  
SRX725F

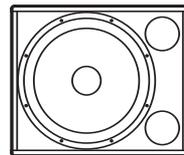


	SRX712M	SRX715 SRX715F	SRX722 SRX722F	SRX725 SRX725F
<b>SYSTEM TYPE</b>	12" Two-way Bass-reflex Stage monitor/utility	15" Two-way Bass-reflex	Dual 12" Two-way Bass-reflex	Dual 15" Two-way Bass-reflex
<b>FREQUENCY RANGE (-10 dB)</b>	70 Hz – 20 kHz	43 Hz – 20 kHz	72 Hz – 20 kHz	37 Hz – 20 kHz
<b>FREQUENCY RESPONSE (±3 dB)</b>	83 Hz – 18 kHz	53 Hz – 20 kHz	81 Hz – 20 kHz	53 Hz – 20 kHz
<b>COVERAGE PATTERN</b>	90° x 50° nominal	75° x 50° nominal	75° x 50° nominal	75° x 50° nominal
<b>SENSITIVITY: 1 W, 1 m</b>	96 dB SPL (Passive Mode)	96 dB SPL (Passive Mode)	97 dB SPL (Passive Mode)	99 dB SPL (Passive Mode)
<b>NOMINAL IMPEDANCE</b>	8 ohms	8 ohms	4 ohms	4 ohms
<b>COMPONENTS: LOW FREQ.</b>	1 x JBL 2262H Differential Drive®	1 x JBL 2265H Differential Drive	2 x JBL 2262H Differential Drive	2 x JBL 2265H Differential Drive
<b>MID FREQ.</b>	1 x JBL 2431H	1 x JBL 2431H	1 x JBL 2452H	1 x JBL 2452H
<b>HIGH FREQ.</b>	1 x JBL 2431H	1 x JBL 2431H	1 x JBL 2452H	1 x JBL 2452H
<b>RATED MAXIMUM SPL</b>	131 dB SPL @1 m (3.3 ft)	131 dB SPL @1 m (3.3 ft)	135 dB SPL @1 m (3.3 ft)	136 dB SPL @1 m (3.3 ft)
<b>POWER RATING:<sup>1</sup></b>	800 W / 1600 W / 3200 W <sup>1</sup>	800 W / 1600 W / 3200 W <sup>1</sup>	1200 W / 2400 W / 4800 W <sup>1</sup>	1200 W / 2400 W / 4800 W <sup>1</sup>
<b>(Continuous/Program/Peak)</b>				
<b>INPUT CONNECTORS</b>	Neutrik® Speakon® NL-4 (x2)	Neutrik Speakon NL-4 (x2)	Neutrik Speakon NL-4 (x2)	Neutrik Speakon NL-4 (x2)
<b>SUSPENSION/MOUNTING</b>	Dual angle, 35 mm pole socket 2 x M10 fittings	Dual angle, 35 mm pole socket 5 x track and M10 suspension points ("F" version only)	5 x track and M10 suspension points ("F" version only)	5 x track and M10 suspension points ("F" version only)
<b>DIMENSIONS</b>	349 x 546 x 260 mm	711 x 439 x 406 mm	965 x 394 x 394 mm	1219 x 541 x 508 mm
<b>(H x W x D)</b>	(13.75 x 21.5 x 10.25 in)	(28 x 17.3 x 16 in)	(38 x 15.5 x 15.5 in)	(48 x 21.3 x 20 in)
<b>NET WEIGHT (each)</b>	15 kg (33 lb)	22 kg (48 lb) (SRX715) 24.1 kg (53 lb) (SRX715F)	34 kg (76 lb) (SRX722) 36.8 kg (81 lb) (SRX722F)	45 kg (100 lb) (SRX725) 47.7 kg (105 lb) (SRX725F)

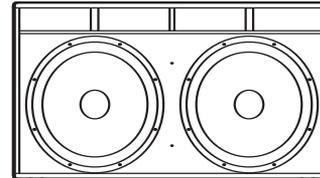


SRX738  
SRX738F

SRX718S



SRX728S



	SRX738 SRX738F	SRX718S	SRX728S
<b>SYSTEM TYPE</b>	18" Three-way Bass-reflex	18" Bass-reflex Subwoofer	Dual 18" Bass-reflex Subwoofer
<b>FREQUENCY RANGE (-10 dB)</b>	35 Hz – 20 kHz	31 Hz – 220 Hz	27 Hz – 220 Hz
<b>FREQUENCY RESPONSE (±3 dB)</b>	44 Hz – 20 kHz	34 Hz – 220 Hz	33 Hz – 220 Hz
<b>COVERAGE PATTERN</b>	60° x 40° nominal		
<b>SENSITIVITY: 1 W, 1 m</b>	95 dB SPL (Passive Mode)	95 dB SPL	95 dB SPL
<b>NOMINAL IMPEDANCE</b>	8 ohms	8 ohms	4 ohms (parallel); 8 ohms x2 (discrete)
<b>COMPONENTS: LOW FREQ.</b>	1 x JBL 2268H Differential Drive	1 x JBL 2268H Differential Drive	2 x JBL 2268H Differential Drive
<b>MID FREQ.</b>	1 x JBL 2169H CMCD™		
<b>HIGH FREQ.</b>	1 x JBL 2431H		
<b>RATED MAXIMUM SPL</b>	130 dB SPL @1 m (3.3 ft)	130 dB SPL @1 m (3.3 ft)	136 dB SPL @1 m (3.3 ft)
<b>POWER RATING:<sup>1</sup></b>	800 W / 1600 W / 3200 W <sup>1</sup>	800 W / 1600 W / 3200 W <sup>2</sup>	1600 W / 3200 W / 6400 W <sup>2</sup>
<b>(Continuous/Program/Peak)</b>			
<b>INPUT CONNECTORS</b>	Neutrik Speakon NL-4 (x2)	Neutrik Speakon NL-4 (x2)	Neutrik Speakon NL-4 (x2)
<b>SUSPENSION/MOUNTING</b>	5 x track and M10 suspension points ("F" version only)	Top mounted M20 threaded socket for optional SS4-BK pole	Top mounted M20 threaded socket for optional SS4-BK pole
<b>DIMENSIONS</b>	1092 x 541 x 648 mm	508 x 597 x 749 mm	602 x 1067 x 838 mm
<b>(H x W x D)</b>	(43 x 21.3 x 25.5 in)	(20 x 23.5 x 29.5 in)	(23.7 x 42 x 33 in)
<b>NET WEIGHT (each)</b>	43 kg (95 lb) (SRX738) 45.5 kg (100 lb) (SRX738F)	36 kg (79 lb)	76 kg (166.5 lb)

<sup>1</sup> IEC filtered noise with 6 dB crest factor, 2 hrs.

<sup>2</sup> 40 Hz – 120 Hz pink noise with 6 dB crest factor, 2 hrs.

# VRX900 Series

VRX932LA and VRX918S are available in white (-WH).



# VRX900

S E R I E S

The new VRX Series addresses the growing need for a small format professional sound system for sound rental companies, fixed installations and musicians looking for the ultimate in performance and portability.

Sharing components with the JBL VERTEC® Line Array Series, the worldwide touring industry standard, the VRX Series features the performance of high end line arrays in a compact format. It's affordable and flexible and provides outstanding coverage and output coherence, while delivering extraordinary power handling, clarity and flexibility.

The VRX Series features the hallmark of all JBL products – stunning, legendary JBL sound.

## VERSATILE CONFIGURATIONS

**Fly your VRX900 Array:** The VRX Series is equipped with JBL's exclusive integral rigging hardware that allows the enclosures to be quickly and securely locked to one another by simply swinging a hinged bar into place and securing it with the included quick release pins. VRX900 line arrays and subwoofers may be suspended using the VRX-AF and VRX-SMAF array frame providing an easy to use, elegant suspension system for flown arrays.

**Pole Mount:** To create a small, compact non-flying system, the VRX may be mounted on a tripod. For greater power and low-frequency extension, one or two VRXs may be pole-mounted over their companion subwoofer.

**Single Cabinet:** When configured for smaller venues, or musicians working alone, the compact size, portability, light weight and stunning performance of the VRX allow it to be used as a single cabinet two-way utility speaker system that can be conveniently mounted on a tripod.

**Ground Stack:** For reaching bleacher and stadium seating from ground level, the VRX's ingenious cabinet design allows it to be ground stacked in configurations of up to 4 enclosures delivering all of the power, clarity and control of a full flown line array system without the additional labor and expense.

## CONSTANT CURVATURE LINE ARRAY

The VRX waveguide mounts three compression drivers on a continuous arc enabling them to work together acoustically as if they were a single source, while dramatically increasing the power handling and acoustic output when compared to a single driver system. Additional enclosures can be added creating an uninterrupted, continuous arc with all of the drivers working together seamlessly as if they were one driver on a very long waveguide.

## AMPLITUDE SHADING

For a smooth, consistent sound field, the VRX uses JBL's Array Configuration Selector, a convenient series of switches on each enclosure that controls the output of each high-frequency section in the array so each section of the venue can be fine tuned for a balanced, seamless overall coverage pattern.

## ARRAY TOOL

The VRX932LA and VRX928LA array tools provide visual help for the user to better understand and deploy a VRX900 Line Array. Acoustic performance can be quickly assessed by simply creating a two dimensional view of the environment the VRX900 system would be used in. The effect of adding systems to the array and adjustments of the Array Configuration Selector can be quickly analyzed. Information can be found online at: <http://www.jblpro.com/vrx/ARRAYTOOL.HTML>.

## DIFFERENTIAL DRIVE® WOOFERS

JBL designed the VRX's drivers with much less weight than comparable drivers and yet significantly increased power handling and output. Super lightweight neodymium magnets positioned inside the voice coil of each driver, a key feature of JBL's patented Differential Drive woofer design, reduce the massive steel top plates, back plates and pole pieces found in the 'magnetic circuits' of conventional loudspeakers. The VRX's dual voice coil design delivers greater power handling while maximizing the performance of each driver.



# key features

- PATENTED DIFFERENTIAL DRIVE® WOOFERS WITH NEODYMIUM MAGNETS
- MULTIPLE NEODYMIUM, ANNULAR DIAPHRAGM RING DRIVERS PER SPEAKER
- CONSTANT CURVATURE WAVEGUIDE
- DUAL ANGLE POLE SOCKET
- INTEGRAL RIGGING HARDWARE
- ARRAY CONFIGURATION SELECTOR FOR "ARRAY SHADING"

## VRX915M

The **VRX915M** is a dedicated, compact and lightweight 15" two way touring-class floor monitor, with only a 375 mm (14.75 in) stage height and JBL's latest neodymium-magnet transducers. Bi-amp or full-range passive operation may be selected via a recessed, high-current switch mounted alongside the NL4 input connector in one of the handle cups. An additional NL4 connector is mounted in the other handle cup for a convenient loop-thru connection.

## VRX928LA

The **VRX928LA** is a lightweight (28 lb / 13 kg) compact 8" two-way linearray speaker system designed for use in arrays of up to six units. VRX928LA is the ideal choice when line-array performance is needed but the venue size doesn't call for the very long-throw characteristics of the larger VRX932LA.

As many as six VRX928LA speaker systems may be suspended in a single array for a nominal vertical coverage of up to 90°. Suspended applications require the JBL VRX928LA-SMAF array frame (available separately). For applications in which the array must be aimed sharply down, a second Array Frame may be installed to the bottom of the array serving as a pull-back.

## VRX932LA-1

The **VRX932LA** is designed for use in arrays of up to six units. Each VRX932LA contains three drivers, which results combined power handling and acoustic output far greater than a single driver could achieve.

As many as six VRX932LA speaker systems may be suspended in a single array for a nominal vertical coverage of up to 90°. Suspended applications require the JBL VRX932LA-AF array frame (available separately). For applications in which the array must be aimed sharply down, a second array frame may be installed to the bottom of the array serving as a pull-back.

One or two VRX932LAs may also be used on a tripod or over subwoofers, with the exception of VRX932LA-WH. The integral rigging hardware is used to securely lock the array together while the dual-angle pole socket provides aiming flexibility.

## VRX932LAP

The **VRX932LA** is a powered, lightweight, compact 12" two-way line-array speaker system designed for use in arrays of up to five units. VRX932LAP is the ideal choice when line-array performance is needed but the venue size doesn't call for the very long-throw characteristics of larger line-arrays and a fast and easy setup is vital.

One or two VRX932LAP's may also be used on a tripod or over subwoofers. The integrated rigging hardware is used to securely lock the array together while the dual-angle pole socket provides aiming flexibility. As many as five VRX932LAP speaker systems may be suspended in a single array for a nominal vertical coverage of up to 75°. Suspended applications require the JBL VRX-AF array frame or eye bolts (available separately).

## VRX915S

The **VRX915S** is a compact, high power suspendable subwoofer system containing a 2265G-1 neodymium magnet, patented Differential Drive®, 15" woofer in a front-loaded, vented enclosure.

The VRX915S was designed specifically for use in arrays with the VRX928LA Line Array speaker and VRX-SMAF Array Frame. In addition it may also be used in arrays consisting entirely of VRX915S subwoofers. The system offers complete input connection flexibility for compatibility with a variety of cabling schemes.



VRX932LAP

## VRX918S

For applications requiring the sonic and practical advantages of integrating the subwoofers into the flying array JBL offers the **VRX918S**, a compact, high power, suspendable subwoofer system using an 18" Differential Drive® woofer in a front-loaded, vented enclosure. The VRX918S was designed specifically for use in arrays with the VRX932LA Line Array speaker and VRX-AF Array Frame. It may also flown in arrays consisting entirely of VRX918S or ground stacked.

The VRX918S, with the exception of the VRX918S-WH, is equipped with a top-mounted, threaded, 20 mm socket that can receive the optional SS4-BK pole. Users who don't require a suspendable subwoofer can opt for the acoustically identical SRX718S sub.

## VRX918SP

The **VRX918SP** is a powered, suspendable subwoofer system containing a 2268FF neodymium magnet, patented Differential Drive®, 18" woofer in a front-loaded, vented enclosure.

The VRX918SP was designed specifically for use in arrays with the VRX932LAP Line Array speaker and VRX-AF Array Frame. In addition it may also be used in arrays consisting entirely of VRX918SP subwoofers. Equally at home in ground stacked applications, the VRX918SP is equipped with a top-mounted, threaded, 20 mm socket that can receive the optional SS4-BK pole.



VRX932LAP (Back View)

The two most popular VRX900 models are now available in a powered version for a setup that's even faster and easier. The JBL DrivePack® DPC-2 amplifier module with integrated DSP provides the power and system management. Dual Bridged Technology directly links discrete amplifier channel outputs with each voice-coil in the Differential Drive woofer to deliver the most efficient power match.



VRX918SP (Back View)

# VRX900 Series



VRX932LA-1  
(3 shown)  
VRX932LAP



VRX928LA  
(2 shown)



VRX915M



VRX918S  
VRX918SP



VRX915S

The VRX928LA is designed to fit perfectly on top the compact VRX915S 15" subwoofer. This system is designed to work in even smaller spaces and to be ultra portable.

## specifications

	VRX915M	VRX928LA	VRX932LA-1 VRX932LA-WH	VRX932LAP	VRX915S	VRX918S VRX918S-WH	VRX918SP
SYSTEM TYPE	15" Two-way Stage Monitor	12" Two-way, Powered Line Array Loudspeaker System	12" Two-way, Powered Line Array Loudspeaker System	12" Two-way, powered Line Array Loudspeaker System	15" Bass-reflex Subwoofer	18" Bass-reflex Subwoofer	18" Bass-reflex Powered Subwoofer
FREQ. RANGE (-10 dB) <sup>1</sup>	60 Hz - 20 kHz	70 Hz - 20 kHz	57 Hz - 20 kHz	57 Hz - 20 kHz	35 Hz - 250 Hz	31 Hz - 220 Hz	31 Hz - 220 Hz
FREQ. RESPONSE (±3dB) <sup>1</sup>	70 Hz - 20 kHz	87 Hz - 19 kHz	75 Hz - 20 kHz	75 Hz - 20 kHz	40 Hz - 250 Hz	34 Hz - 220 Hz	34 Hz - 220 Hz
SENSITIVITY: 1 W, 1 m	98 dB SPL	Passive: 90 dB SPL, Bi-Amp LF: 90 dB SPL Bi-Amp HF 108 dB SPL <sup>3</sup>	Passive: 95 dB SPL, Bi-Amp LF: 95 dB SPL Bi-Amp HF 114 dB SPL <sup>3</sup>	Passive: 95 dB SPL, Bi-Amp LF: 95 dB SPL Bi-Amp HF 114 dB SPL <sup>3</sup>	91 dB SPL	95 dB SPL	95 dB SPL
NOMINAL IMPEDANCE: PASSIVE BI-AMP	8 ohms	8 ohms LF: 8 ohms/HF: 16 ohms	8 ohms LF: 8 ohms/HF: 16 ohms	LF: 2 x 2 ohms / HF: 4 ohms	4 ohms	8 ohms	2 x 2 ohms
MAXIMUM SPL @ 1 m	127 dB SPL continuous 133 dB SPL peak <sup>2</sup>	Passive: 122 dB SPL <sup>2</sup> Bi-amp LF: 122 dB SPL Bi-amp HF: 128 dB SPL <sup>3</sup>	Passive: 130 dB SPL <sup>2</sup> Bi-amp LF: 130 dB SPL Bi-amp HF: 139 dB SPL <sup>3</sup>	136 dB SPL <sup>2</sup>	126dB SPL peak <sup>2</sup>	130 dB SPL peak <sup>2</sup>	126dB SPL peak <sup>2</sup>
POWER RATING: PASSIVE BI-AMP Continuous/Program/Peak	800W / 1600W / 3200W <sup>2</sup>	400W / 800W / 1600W LF: 400W / 800W / 1600W <sup>2</sup> HF: 30W / 60W / 120W	800W / 1600W / 3200W LF: 800W / 1600W / 3200W <sup>2</sup> HF: 75W / 150W / 300W	Internal DPC-2: 875W Cont. / 1750W Peak LF: 750W / HF: 125W	800W / 1600W / 3200W <sup>4</sup>	800W / 1600W / 3200W <sup>4</sup>	Internal DPC-2: 750W
NOMINAL DISPERSION	50° x 90°	100° x 15°	100° x 15°	100° x 15°			
TRANSDUCERS: LF HF	1 x JBL 2265H 1 x JBL 2452H (4 in)	1 x JBL 2168H-1 (8 in) 2 x JBL 2414H (1 in)	1 x JBL 2262H (12 in) 3 x JBL 2408J (1.5 in)	1 x JBL 2262FF (12 in) 3 x JBL 2408J (1.5 in)	1 x JBL 2265G-1 (15 in) Differential Drive Woofer	1 x JBL 2268H (18 in) Differential Drive Woofer	1 x JBL 2268FF (18 in) Differential Drive Woofer
ENCLOSURE	15/18 mm birch plywood	18 mm, 11-ply birch plywood	18 mm, 11-ply birch plywood	25 mm, 15-ply birch plywood	15/18 mm birch plywood	18 mm, 11-ply birch plywood	18 mm, 11-ply birch plywood
FINISH	Black DuraFlex™ finish	Black DuraFlex finish	Black DuraFlex finish	Black DuraFlex finish	Black DuraFlex finish	Black DuraFlex finish	Black DuraFlex finish
INPUT CONNECTORS	Neutrik® Speakon® NL-4 (x2)	Neutrik Speakon NL-4 (x2)	Neutrik Speakon NL-4 (x2)	AC: Neutrik PowerCon (NAC 3MPA)	Neutrik Speakon NL-4 (x2)	Neutrik Speakon NL-4 (x2)	AC: Neutrik PowerCon (NAC 3MPA)
DIMENSIONS (H x W x D)	629 x 432 x 324 mm 24.75 x 17 x 12.75 in	230 x 419 x 267 mm 9.0 x 16.5 x 10.5 in	349 x 597 x 381 mm 13.75 x 23.5 x 15.0 in	349 x 597 x 444 mm 13.75 x 23.5 x 17.5 in	496 x 420 x 597 mm 19.5 x 16.5 x 23.5 in	508 x 597 x 749 mm 20.0 x 23.5 x 29.5 in	508 x 597 x 749 mm 20.0 x 23.5 x 29.5 in
NET WEIGHT (each)	21 kg (46 lb)	12.7 kg (28 lb)	21.0 kg (46 lb)	24.0 kg (52 lb)	26 kg (57 lb)	37 kg (81 lb)	38.5 kg (85 lb)

<sup>1</sup> "Frequency Range" and "Frequency Response" are based on half-space conditions. <sup>2</sup> IEC filtered noise with 6 dB crest factor, 2 hrs. <sup>3</sup> HF driver sensitivity is based on measurements averaged between 1.5 kHz - 16 kHz. <sup>4</sup> 40 - 120 Hz pink noise, 6 dB crest factor, 2 hrs.

# Cone Transducers & Compression Drivers



**VGC™ SERIES CONE TRANSDUCERS**  
**MODELS: 2206H, 2226H/J, 2241H**

These low-frequency transducers incorporate JBL's patented Vented Gap Cooling technology in an improved Symmetrical Field Geometry (SFG) magnet structure. JBL engineers optimized both magnet weight, flux density and field saturation resulting in a reduction of overall driver weight and a significant reduction in harmonic distortion.

**SVG™ SERIES CONE TRANSDUCERS**  
**Low-frequency Maximum Output Transducers**  
**MODEL: 2242H**

The 2242H low-frequency transducer incorporates JBL's patented Super Vented Gap™ technology for improvement in power handling capability while minimizing power compression.

Some of JBL's numerous component transducers are available as sales models. Units shown are legendary workhorses, often used in custom system designs.



2426H/J



2451H/J



2447H/J



2446H/J



2450H/J

**25 mm - 1" EXIT COMPRESSION DRIVER**  
 (44 mm - 1 3/4" Diaphragm)

The **JBL 2426H/J** incorporates JBL's titanium diamond diaphragm for ruggedness and outstanding frequency response.

**38 mm - 1 1/2" EXIT COMPRESSION DRIVERS**  
 (100 mm - 4" Diaphragm)

The 38 mm exits on the **2447H/J and 2451H/J** compression drivers allow the Coherent Wave™ phasing plug to directly couple with Optimized Aperture™ Bi-Radial® horns for lower distortion and better coverage control. The large format 100 mm (4 in) diaphragm design includes JBL's exclusive three dimensional diamond pattern which increases the drivers' output in the 5 kHz to 20 kHz range when combined with the Coherent Wave phasing plug.

**49 mm - 2" EXIT COMPRESSION DRIVERS**  
 (100 mm - 4" Diaphragm)

The **2446H/J and 2450H/J** use the optimized configuration of the Coherent Wave phasing plug design, offering coherent summation of acoustical power up to much higher frequencies than previous designs.

The **2450H/J** incorporates a neodymium rare-earth magnet assembly that provides the equivalent electromechanical conversion efficiency at two-thirds the size and one-third the weight required by previous large format compression driver designs.

*Note: H version is 8 ohms impedance and J version is 16 ohms impedance.*



2242H

<sup>1</sup> AES standard (50 - 500 Hz)  
<sup>2</sup> Based on a swept 100 to 500 Hz signal.  
 1 W is 2.83 V @ 8 ohms, 4.0 V @ 16 ohms.  
<sup>3</sup> Based on standard IEC 268-1  
<sup>4</sup> Based on a swept 500 Hz to 2.5 kHz signal.

## specifications

	2206H	2226H/J	2241H	2242H
NOMINAL DIAMETER	300 mm (12 in)	380 mm (15 in)	460 mm (18 in)	460 mm (18 in)
RATED IMPEDANCE	8 ohms	8 ohms (H); 16 ohms (J)	8 ohms	8 ohms
POWER CAPACITY	600 W <sup>1</sup>	600 W <sup>1</sup>	600 W <sup>1</sup>	800 W <sup>1</sup>
SENSITIVITY: 1 W, 1 m	95 dB SPL <sup>2</sup>	97 dB SPL <sup>2</sup>	98 dB SPL <sup>2</sup>	99 dB SPL <sup>2</sup>
FREQUENCY RANGE (-10 dB)	45 Hz - 3.5 kHz	30 Hz - 2.5 kHz	30 Hz - 3 kHz	25 Hz - 1.6 kHz
HIGHEST CROSSOVER	1500 Hz	1200 Hz	800 Hz	1.0 kHz
VOICE COIL DIAMETER	100 mm (4 in)			
VOICE COIL MATERIAL	Edgewound aluminum ribbon	Edgewound aluminum ribbon	Edgewound aluminum ribbon	Edgewound aluminum ribbon
HALF SPACE REFERENCE EFFICIENCY	2.5%	3.3%	2.9%	4%
NET WEIGHT (each)	7.8 kg (17.1 lb)	8.7 kg (19.25 lb)	10.7 kg (23.5 lb)	13.2 kg (29 lb)

	2426H/J	2447H/J	2451H/J	2446H/J	2450H/J
NOMINAL IMPEDANCE	8 ohms (H) 16 ohms (J)	8 ohms (H) 16 ohms (J)	8 ohms (H) 16 ohms (J)	8 ohms (H) 16 ohms (J)	8 ohms (H) 16 ohms (J)
POWER CAPACITY <sup>1</sup>	70 W above 800 Hz 100 W above 1.2 kHz	100 W above 500 Hz 150 W above 1 kHz	100 W above 500 Hz 150 W above 1 kHz	100 W above 500 Hz 150 W above 1 kHz	100 W above 500 Hz 150 W above 1 kHz
SENSITIVITY, 1 W, 1 m (Averaged)	110 dB <sup>2</sup> (1 kHz - 4 kHz)	111 dB <sup>2</sup> (1 kHz - 4 kHz)	111 dB <sup>2</sup> (500 Hz - 2.5 kHz)	111 dB <sup>2</sup> (2 kHz octave band)	111 dB <sup>2</sup> (2 kHz octave band)
FREQUENCY RANGE (-10 dB)	500 Hz - 20 kHz	500 Hz - 20 kHz	500 Hz - 20 kHz	500 Hz - 20 kHz	500 Hz - 20 kHz
RECOMMENDED CROSSOVER	800 Hz or higher	500 Hz or higher	500 Hz or higher	500 Hz or higher	500 Hz or higher
DIAPHRAGM: SIZE MATERIAL	44 mm (1 3/4 in) Pure titanium	100 mm (4 in) Pure titanium	100 mm (4 in) Pure titanium	100 mm (4 in) Pure titanium	100 mm (4 in) Pure titanium
VOICE COIL MATERIAL	Aluminum ribbon	Aluminum ribbon	Aluminum ribbon	Aluminum ribbon	Aluminum ribbon
FLUX DENSITY	1.8T (18,000 gauss)	1.85T (18,500 gauss)	1.9T (19,000 gauss)	1.9T (19,000 gauss)	1.9T (19,000 gauss)
DIMENSIONS: DIAMETER DEPTH	149 mm (5.875 in) 104 mm (4.125 in)	235 mm (9.25 in) 100 mm (4 in)	167 mm (6.6 in) 100 mm (3 in)	235 mm (9.25 in) 131 mm (5.2 in)	167 mm (6.6 in) 139 mm (5.5 in)
NET WEIGHT (each)	4.3 kg (9.5 lb)	10.7 kg (23.5 lb)	4.5 kg (10 lb)	13.8 kg (30.5 lb)	4.8 kg (10.5 lb)

<sup>1</sup> Continuous program power is defined as 3 dB greater than continuous pink noise and is a conservative expression of the transducer's ability to handle typical speech and music program material.  
<sup>2</sup> Sensitivity measured on a horn with a Q of 6.3.

# Horns



2370A

**OPTIMIZED APERTURE™  
MID-SIZE BI-RADIAL® HORNS**  
MODELS: 2352, 2353, 2354

The Optimized Aperture Mid-Size Bi-Radial Horns are designed to provide high sound pressure level at low distortion over the bandwidth of 630 Hz to beyond 18 kHz with very uniform horizontal and vertical coverage from an optimum size horn. Extensive modeling was used to optimize the coverage pattern, reducing both distortion and size.

Constant horizontal and vertical coverage patterns provide easily predictable performance at any frequency or orientation. Cluster design is simplified and typical problems such as lobing and size are greatly reduced.



2382A

**FLAT-FRONT BI-RADIAL® HORNS**  
MODELS: 2370A, 2380A, 2382A, 2385A, 2386A

The Flat-Front Bi-Radial Horns are designed for flush cabinet mounting or compact cluster applications. The horns provide uniform on and off axis frequency response at the rated frequencies.

The horn's small vertical mouth dimension (just slightly larger than the compression driver used to drive the horn) allows very compact single and multiple horn/driver systems to be put together. Should vertical pattern control be required below 2 kHz, two or more horns may be stacked vertically to restore full Bi-Radial™ performance.



2509A

**HORN/DRIVER  
MOUNTING SYSTEM**  
MODELS: 2509A

The 2509 Professional Mounting Bracket is designed to facilitate easy installations and quick adjustability in a variety of applications. It is manufactured of rugged 1/8" steel and finished in black matte. The 2509 Professional Mounting Bracket is not intended for suspension applications.

The 2509A is a two piece system that allows aiming and rotation in three planes—vertical, horizontal and rotation around axis. The width of the mounting slots and an included adaptor gasket allow use with the 2350 Series and the 2380 Series.

## specifications

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Section: 06



	2352	2353	2354
THROAT SIZE	38 mm (1 1/2 in)	38 mm (1 1/2 in)	38 mm (1 1/2 in)
ACCEPTS JBL DRIVERS	2447H/J, 2451H/J	2447H/J, 2451H/J	2447H/J, 2451H/J
NOMINAL DISPERSION	90° H x 40° V	60° H x 40° V	40° H x 30° V
DIRECTIVITY FACTOR (Q) (Averaged)	13 (630 Hz - 20 kHz)	16 (630 Hz - 20 kHz)	30 (800 Hz - 20 kHz)
DIRECTIVITY INDEX (DI) (Averaged)	11 (630 Hz - 20 kHz)	12 (630 Hz - 20 kHz)	15 (800 Hz - 20 kHz)
USABLE LOW FREQ. LIMIT	500 Hz	500 Hz	500 Hz
MIN. RECOMMENDED CROSSOVER	500 Hz @ 18 dB/oct min.	500 Hz @ 18 dB/oct min.	500 Hz @ 18 dB/oct min.
AXIAL PRESSURE SENSITIVITY <sup>1</sup>	112 dB	114 dB	115 dB
CONSTRUCTION	Fiberglass reinforced plastic	Fiberglass reinforced plastic	Fiberglass reinforced plastic
MOUTH: HEIGHT	457 mm (18 in)	457 mm (18 in)	457 mm (18 in)
WIDTH	559 mm (22 in)	559 mm (22 in)	559 mm (22 in)
LENGTH	254 mm (10 in)	305 mm (12 in)	432 mm (17 in)
NET WEIGHT (each)	2.2 kg (6 lb)	3.6 kg (8 lb)	4.0 kg (9 lb)



2352, 2353 & 2354

	2370A	2380A	2382A	2385A	2386A
THROAT SIZE	25 mm (1 in)	49 mm (2 in)	49 mm (2 in)	49 mm (2 in)	49 mm (2 in)
ACCEPTS JBL DRIVERS	2426H/J	2446H/J, 2450H/J, 2485J	2446H/J, 2450H/J, 2485J	2446H/J, 2450H/J, 2485J	2446H/J, 2450H/J, 2485J
NOMINAL DISPERSION	90° H x 40° V	90° H x 40° V	120° H x 40° V	60° H x 40° V	40° H x 20° V
DIRECTIVITY FACTOR (Q) (Averaged)	12.2 (1 kHz - 16 kHz)	10.7 (1 kHz - 16 kHz)	9 (630 Hz - 20 kHz)	19 (1 kHz - 16 kHz)	44.9 (2 kHz - 16 kHz)
DIRECTIVITY INDEX (DI) (Averaged)	10.9 (1 kHz - 16 kHz)	10.3 (1 kHz - 16 kHz)	7.9 (500 Hz - 16 kHz)	12.8 (1 kHz - 16 kHz)	16.5 (2 kHz - 16 kHz)
USABLE LOW FREQ. LIMIT	500 Hz	400 Hz	400 Hz	400 Hz	350 Hz
MIN. RECOM. CROSSOVER	630 Hz	500 Hz	500 Hz	500 Hz	400 Hz
AXIAL PRESSURE SENSITIVITY <sup>1</sup>	110 dB	112 dB	110 dB	114 dB	116 dB
CONSTRUCTION	High density solid polyurethane	Molded structural foam	Molded structural foam	Molded structural foam	High density solid polyurethane
MOUTH: HEIGHT	173 mm (6.81 in)	279 mm (11 in)	279 mm (11 in)	279 mm (11 in)	279 mm (11 in)
WIDTH	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)
LENGTH	174 mm (6.84 in)	236 mm (9.28 in)	236 mm (9.28 in)	236 mm (9.28 in)	359 mm (14.4 in)
NET WEIGHT (each)	1.4 kg (3 lb)	2.2 kg (6 lb)	1.62 kg (3.5 lb)	2.2 kg (6 lb)	5.5 kg (12 lb)

<sup>1</sup> Measured on axis in the far field with 1 watt input and referred to 1 meter distance calculated by inverse square law. Listed sound pressure level represents an average from 1 kHz to 4 kHz.

# Cinema Loudspeaker Systems



The history of JBL Cinema Speakers is the history of cinema itself. When a company has a legacy nearly eight decades long, there's little doubt that its ear is planted firmly to the ground.

For most of the 20th Century, JBL has been the most trusted name in Cinema sound. In fact, its namesake and founder James B. Lansing began his company building the world's first cinema speakers. That commitment to the core components of cinema speaker design is why, today, JBL Cinema speakers are found in 6 out of 10 movie theaters around the world.

Ever since James B. Lansing developed cinema speakers at the very beginning of talking movies, JBL has consistently set the bar on just how good the movies can sound. That's why the majority of Dolby® equipped cinemas worldwide use JBL loudspeakers. It's also why Lucasfilm engineers chose JBL speakers as the standard with which the first THX® licensed commercial theaters were developed.

Unparalleled in experience, technical leadership and customer support: a few reasons why, today, JBL speakers also grace the stages of the most coveted theatrical venues, such as The Academy of Motion Picture Arts and Sciences Samuel Goldwyn Theater, The Directors Guild of America and The Academy of Television Arts and Sciences.

Academy of Motion Picture Arts and Sciences  
Samuel Goldwyn Theater: Hollywood, California

*"Academy Award" and "Oscar" image © AMPAS®. THX® Lucasfilm, LTD.*

# ScreenArray® Series

Today's Cinema patron demands perfect coverage in every seat of the auditorium, wide dynamic range and extended bandwidth, as well as inaudible levels of distortion. This dictates the need for a new standard of loudspeaker performance for today's premier cinemas.

The ScreenArray Series represents the embodiment of JBL's continued commitment to the movie cinema industry. As such all models incorporate the latest advances in JBL's research into high performance transducer, waveguide, and crossover designs. Incorporating the performance benefits of JBL's patented Screen Spreading Compensation™ (SSC) and Focused Coverage Technology™, this speaker series provides smooth and uniform timbral balance consistent with current industry listening standards.

Since their introduction, JBL ScreenArray Systems have rewritten the rules for designing premium Cinema loudspeakers. Perhaps that's why you'll find them behind such prestigious screens as the Academy of Television Arts and Sciences Leonard H. Goldenson Theatre, and at the Mann Grauman's Chinese Theatre in Hollywood.

JBL offers two ScreenArray systems to meet the challenges posed by lower cost installations. All three products provide ultra smooth and accurate sound reproduction in a compact and highly cost effective system. The 3622N Passive system, the 4622N Passive system and the 4622 Bi-amplified system feature the ultra-low distortion ScreenArray high frequency horn with SSC and dual 15" low-frequency sections.

## 3622N

The **3622N ScreenArray** provides smooth and accurate reproduction of cinema soundtracks in a compact and very cost effective passive system.

The system is comprised of two parts: the 3622-HF high-frequency pack and the 3639 low-frequency system.

The ScreenArray horn features a patent pending design that compensates for high frequency spreading caused by perforated screens for greatly improved audience coverage. Together, these elements provide clear, accurate reproduction of the mid/high frequency information. All of these components come pre-assembled to reduce field assembly time thus reducing installation costs.

## 4622/4622N

The **4622 and 4622N** provide smooth and accurate reproduction of cinema soundtracks in a compact and very cost effective system.

The system is comprised of two parts: the 4622-HF high-frequency pack and the 4639 low-frequency system. The **4622N** passive system utilizes a sophisticated crossover network. Developed using computer optimization technology, it provides seamless transition resulting in excellent power response and controlled directivity.

4622 & 4622N



## specifications

	3622N	4622/4622N
FREQUENCY RANGE	30 Hz - 20 kHz	30 Hz - 20 kHz
FREQUENCY RESPONSE	40 Hz - 16 kHz	40 Hz - 16 kHz
COVERAGE ANGLES	90° horizontal, -30°, +20° vertical	90° horizontal, -30°, +20° vertical
RATED MAXIMUM SPL:	127 dB, @ 1 m 133 dB peak	127 dB, @ 1 m 133 dB peak
CROSSOVER FREQUENCIES:	1300 Hz	4622: 630 Hz 4622N: 750 Hz
SENSITIVITY: 2.83V @ 1 m	101 dB	101 dB
NOMINAL IMPEDANCE:	4 ohms	4622: 4 ohms 4622N: HF 8 ohms 4622N: LF 4 ohms
DRIVERS: LF	2 x M115-8A	2 x 2035H-1
HF	2418H-1	2430H
SYSTEM ELEMENTS: LF	3639	4639
MF/HF	3622N-HF	4622-HF [4622N-HF]
DIMENSIONS (H x W x D)	1289 x 762 x 450 mm 50.75 x 30 x 17.75 in	1289 x 762 x 450 mm 50.75 x 30 x 17.75 in
NET WEIGHT	65 kg (143 lb)	73 kg (160 lb)

SCREENARRAY SERIES

# key features

- ➊ DESIGNED FOR MAXIMUM OUTPUT, OPTIMAL COVERAGE, AND MINIMUM DISTORTION
- ➋ THX® APPROVED (4632-T, 3632-T AND 3631-T)
- ➌ SHIPS FULLY ASSEMBLED
- ➍ ULTRA-LOW DISTORTION AND EXTREMELY UNIFORM FREQUENCY RESPONSE
- ➎ FLAT-FRONT DESIGN FOR EASY BAFFLEWALL INSTALLATION
- ➏ SHALLOW PROFILE FOR MINIMUM DEPTH BEHIND SCREEN (17 3/4")

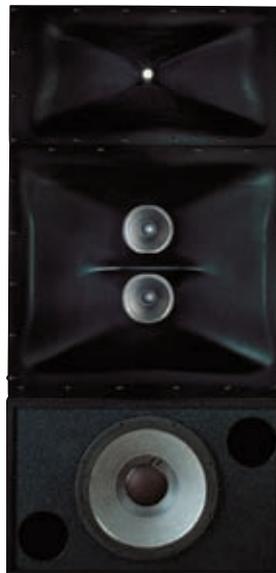
4632 [T]



3632 [T]

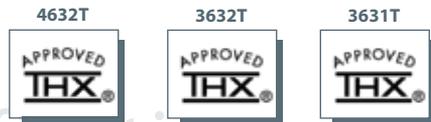


3631 [T]



The ScreenArray Series features true three-way system design enhanced by advanced engineering. JBL Professional's best technical innovations are integrated in a system design that provides superior coverage, maximum power handling, and uniform acoustic power output, along with extremely low distortion. The ScreenArray design provides ideal power response and directivity control with seamless transitions between acoustic sections.

The 3631, 3632 and 4632 ScreenArray Series systems are available for bi-amplified or tri-amplified operation.



## specifications

	4632 [T]	3632 [T]	3631 [T]
FREQUENCY RANGE	30 Hz - 20 kHz	30 Hz - 20 kHz	30 Hz - 20 kHz
FREQ RESPONSE (± 3 dB)	40 Hz - 16 kHz	40 Hz - 16 kHz	40 Hz - 16 kHz
COVERAGE ANGLES	90° x 20° up, 30° down	90° x 20° up, 30° down	90° x 20° up, 30° down
DIRECTIVITY FACTOR (Q)	10.0	10.0	10.0
DIRECTIVITY INDEX (DI)	10 dB	10 dB	10 dB
MAXIMUM PEAK OUTPUT:	129 dB @ 1 m	126 dB @ 1 m	126 dB @ 1 m
CROSSOVER FREQUENCIES:	250 Hz [1.2 kHz]	350 Hz [1.2 kHz]	350 Hz [1.2 kHz]
SENSITIVITY: 2.83V @ 1 m	106 dB	104 dB	104 dB
NOMINAL IMPEDANCE:	4 ohms	4 ohms	4 ohms
DRIVERS: LF	2 x 2035H-1	2 x M115H-1	1 x 2226H
MF	4 x 165H	2 x 165H	2 x 165H
HF	2425HS	2418H	2418H
SYSTEM ELEMENTS: LF	4639	3639 [3632T:4639]	5641
MF/HF	4632-M/HF [4639 - 4632T]	3632-M/HF	3632-M/HF
DIMENSIONS (H x W x D)	2427 x 762 x 450 mm 95.6 x 30 x 17.75 in	1937 x 762 x 450 mm 76.3 x 30 x 17.75 in	1600 x 762 x 450 mm 63 x 30 x 17.75 in
NET WEIGHT (EACH)	120.4 kg (265 lb)	97.7 kg (215 lb)	68.6 kg (151 lb)



Academy of Television Arts and Sciences  
North Hollywood, California

# key features

## Large Format Three-Way Systems

- ▶ THX® APPROVED
- ▶ PROVEN HIGH PERFORMANCE AND RELIABILITY
- ▶ ADVANCED THREE-WAY DESIGN FOR THE MOST PRESTIGIOUS CINEMAS IN THE WORLD

### 5672

Auditoriums up to 500 seats, film studios and exhibition venues now have a premium JBL three-way that's a perfect match for them.

The 5672 features a three-way design highlighted by two JBL 2226H 380 mm (15 in) low-frequency transducers as a vertical over-under array in a 4648A LF System, and one 5674-M/HF System, ensuring outstanding performance. Designed for tri-amplification, the bi-amplified 5672-BI is also available.

### 5674

When the world's most prestigious cinemas want the very best, they specify the JBL 5674. The 5674 is today's most advanced three-way design, featuring an unmatched blend of high performance and unrivaled reliability.

The 5674 features four JBL 2226H 380 mm (15 in) low-frequency transducers in a unique DiamondQuad™ array. This array orientation allows the four drivers to create maximum output, while minimizing destructive interference effects caused by the use of multiple drivers operating in the same bandpass region.

The 5674 requires tri-amplification and includes one 5644 Quad LF System and one 5674-M/HF System. The 5674 has earned THX Approval and is the same system used in The Academy of Motion Picture Arts and Sciences Samuel Goldwyn Theater and The Directors Guild Theater in Los Angeles. The JBL 5674, truly the world's finest three-way loudspeaker.



5674



5672

## specifications

	5672	5674
FREQUENCY RANGE	35 Hz - 16 kHz (-10 dB)	35 Hz - 16 kHz (-10 dB)
FREQUENCY RESPONSE	45 Hz - 12.5 kHz (± 3 dB)	45 Hz - 12.5 kHz (± 3 dB)
COVERAGE ANGLES (H x V)	80° x 45° (300 Hz - 16 kHz)	80° x 45° (300 Hz - 16 kHz)
DIRECTIVITY FACTOR (Q)	10.4	10.4
DIRECTIVITY INDEX (DI)	11	11
MAX. PEAK OUTPUT: (LF/MF/HF)	137/140/137 dB @ 1 m	143/140/137 dB @ 1 m
CROSSOVER FREQ.: LF/MF MF/HF	297 Hz 2.5 kHz	297 Hz 2.5 kHz
SENSITIVITY: 1 W, 1 m (LF/MF/HF)	100/114/112 dB	103/114/112 dB
NOMINAL IMPEDANCE: (LF/MF/HF)	4/8/8 ohms	4 (per driver pair) /8/8 ohms
LF DRIVER(S)	2 x 2226H	4 x 2226H (2 pair in parallel)
MF DRIVER/MF HORN	2490H/2392	2490H/2392
HF DRIVER/HF HORN	2451H/2352	2451H/2352
SYSTEM ELEMENTS: LF MF/HF	4648A 5674-M/HF	5644 5674-M/HF
DIMENSIONS (H x W x D)	2768.8 x 1118 x 863.6 mm 109 x 44 x 34 in	2895.6 x 1118 x 863.6 mm 114 x 44 x 34 in
NET WEIGHT (EACH)	87.3 kg (192.5 lb)	171.69 kg (378.5 lb)

# key features

- MAXIMUM VALUE
- MINIMAL SET-UP AND INSTALLATION
- SMOOTH, EVEN COVERAGE
- 3678, 4675C-8LF APPROVED FOR THX® INSTALLATIONS

## Two-Way Systems

### 3677

Combine classic JBL performance with a natural sound quality for both music and dialog and you've just described the **3677**. For extraordinary convenience, the all-in-one enclosure requires no field assembly, simplifying set-up and reducing cost of installation.

### 3678

THX Approved design in the bi-amplified mode. JBL's patented Vented Gap Cooling™ keeps the 2226H low frequency working optimally while the JBL 2342 Bi-Radial® horn and 2426 pure titanium compression driver ensure smooth, even coverage, natural sound and unsurpassed reliability. The 3678 has a 11 1/2" shallow profile.



### 4670D

The **4670D** is a wide bandwidth system with remarkable dynamic range and consistent coverage. In fact, the performance of the 4670D is the foundation for true big-screen commercial cinema sound.

### 4675C & 4675C-4(8)LF

These are the speakers chosen when nothing but the very best in full-range two way systems will suffice. The series delivers uniform frequency response throughout the listening area with high sound pressure levels. The **4675C-4LF** (4 ohms) and **4675C-8LF** (8 ohms) are designed for bi-amplified applications where an external electronic crossover or cinema processor is used in conjunction with separate amplifiers for the high and low-frequency sections.



The **4675C** consists of: one 4638TH System, one 4675C-HFA Kit and built-in passive cross-over network. The **4675C-4LF** consists of: one 4648A (LF) System and one 4675C-HFA Kit. The **4675C-8LF** is THX Approved and consists of: one 4648A-8 (LF) System and one 4675C-HFA Kit.



## specifications

	3677	3678	4670D	4675C	4675C-4LF/4675C-8LF
FREQUENCY RANGE	40 Hz - 20 kHz (-10 dB)	30 Hz - 20 kHz (-10 dB)	35 Hz - 20 kHz (-10 dB)	35 Hz - 20 kHz (-10 dB)	35 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE	45 Hz - 12 kHz (± 3 dB)	45 Hz - 12 kHz (± 3 dB)	40 Hz - 16 kHz (± 3 dB)	40 Hz - 16 kHz (± 3 dB)	40 Hz - 16 kHz (± 3 dB)
POWER CAPACITY <sup>1</sup>	250 W	300 W	600 W	600 W	1200 W (LF) 100 W (HF)
COVERAGE ANGLES (H x V)	90° x 40°	90° x 90°	90° x 40°	90° x 40°	90° x 40°
CROSSOVER FREQUENCY <sup>2</sup>	1.2 kHz	1 kHz	500 Hz	500 Hz	500 Hz
SENSITIVITY: 1 W, 1 m	99 dB SPL	98 dB SPL	100 dB SPL	100 dB SPL	100 dB SPL (LF)
NOMINAL IMPEDANCE	8 ohms	8 ohms	4 ohms	4 ohms	LF: 4 ohms (4LF)/ 8 ohms (8LF)
LF DRIVER(S)	2035H	2226H	2 x 2035H	2 x 2035H	2 x 2226H (J)
HF DRIVER	2416-1	2425HS	2446H	2446H	2446H
HORN	2373	2342	2380A	2360B W/2506C	2360B W/2506C
SYSTEM ELEMENTS: LF	(All-in-one enclosure)	3678-LF	4638TH	4638TH	4648A/4648A-8 (8LF)
HF		3678-HF	4670D-HF	4675C-HFA	4675C-HFA
DIMENSIONS (H x W x D)	765 x 651 x 292 mm	1019 x 651 x 292 mm	1289 x 673 x 438 mm	1797 x 770 x 949 mm	1797 x 770 x 949 mm
NET WEIGHT (EACH)	39 kg (85 lb)	40.125 x 25.625 x 11.5 in	50.75 x 26.5 x 17.25 in	70.75 x 30.312 x 37.375 in	70.75 x 30.312 x 37.375 in
		41 kg (90 lb)	92 kg (203 lb)	98 kg (215 lb)	98 kg (215 lb)

<sup>1</sup> IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB.

<sup>2</sup> Due to standard motion picture recommendations, theater systems with large format compression drivers are specified with 500 Hz crossovers.



# Surround Systems

## key features

- DESIGNED FOR SMALL, MEDIUM, LARGE AND VERY LARGE VENUES
- SMOOTH, EVEN COVERAGE
- THX® APPROVED



3310



8330A



8340A

### 3310

The **3310** features one 200 mm (8 in) low-frequency driver and a 1 inch titanium dome tweeter. The 3310's internal passive crossover includes a passive protection circuit to ensure maximum reliability. If JBL performance seems incompatible with your budget, consider the 3310 Cinema Surround System. The 3310 offers surprising performance at an equally surprising price.

### 8330A

The **8330A** three-way features a 200 mm (8 in) low-frequency driver for smooth, extended bass response; a 130 mm (5 in) midrange transducer for the critical midrange and a 25 mm (1 in) titanium-laminate dome tweeter providing wide, even high frequency coverage. Add a modern, molded black textured enclosure with black grille and you know why the 8330A is the industry standard in its class.



### 8340A

The **8340A** Surround speaker is an unbeatable choice when very high power handling, high sensitivity, extended bass response and a remarkably compact cabinet are the requirements. The two-way 8340A's proven reliability and performance have positioned it as the industry standard for the extended dynamic range required by today's digital sound formats. At 19 pounds, installation is quick and painless.



## specifications

	3310	8330A	8340A
FREQUENCY RANGE	40 Hz - 20 kHz (-10 dB)	40 Hz - 20 kHz (-10 dB)	45 Hz - 18 kHz (-10 dB)
FREQUENCY RESPONSE	100 Hz - 12 kHz (± 3 dB)	70 Hz - 14 kHz (± 3 dB)	70 Hz - 16 kHz (± 3 dB)
POWER CAPACITY <sup>1</sup>	75 W	100 W	250 W
COVERAGE ANGLES (H x V)	100° x 100°	110° x 105°	100° x 80°
CROSSOVER FREQUENCY:	2.5 kHz	650 Hz & 3.1 kHz	2.2 kHz
SENSITIVITY: 1 W, 1 m	89 dB	91 dB	96 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms
DRIVERS: LF	200 mm (8 in)	200 mm (8 in)	250 mm (10 in)
MF		130 mm (5 in)	
HF	25 mm (1 in)	25 mm (1 in)	25 mm (1 in) horn
DIMENSIONS (H x W x D)	446 x 483 x 267 mm	457 x 457 x 260 mm	457 x 457 x 260 mm
	17.5 x 19 x 10.5 in	18 x 18 x 10.25 in	18 x 18 x 10.25 in
NET WEIGHT (EACH)	13 kg (29 lb)	8.6 kg (19 lb)	8.6 kg (19 lb)

<sup>1</sup> IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB.



Mann Grauman's Chinese Theatre: Hollywood, California

# Subwoofers

## key features

- EXCEPTIONAL LOW FREQUENCY AUGMENTATION
- APPROVED FOR THX® INSTALLATIONS



### 3635

When a small cinema and an equally small budget are the orders of the day, the JBL **3635** is the perfect choice. It features one 460 mm (18 in) transducer, an unobtrusive shallow enclosure (14 1/2"), true JBL performance and a surprising price.

### 4641

When a 600 Watt cinema system is what you need, the **4641** is the perfect choice for cost effective, low frequency augmentation. The 4641 features one 460 mm (18 in) JBL 2241 VGC™ (Vented Gap Cooling) low-frequency transducer. The 4641 is THX® approved.



### 4642A

The **4642A** is a dual 460 mm (18 in) subwoofer system featuring two VGC (Vented Gap Cooling) 2241H low-frequency transducers. This high-performance, cost effective 1200 Watt system is ideal for low-frequency augmentation when smooth response down to the lowest audible frequencies is required. An outstanding performer! The 4642A is THX® approved. Also available with grilles.



### 4645C

Approved by THX®, the **4645C** is the industry standard. The 4645C is a single 460 mm (18 in) direct radiator bass reflex subwoofer system featuring the 2242 SVG™ (Super Vented Gap) low-frequency transducer for highest output with lowest distortion. The 4645C is the choice whenever a premium performance single 460 mm (18 in) 800 Watt system is required for low-frequency augmentation.



## specifications

	3635	4641	4642A	4645C
FREQUENCY RANGE (-10 dB)	28 Hz - 500 Hz	25 Hz - 500 Hz	22 Hz - 500 Hz	To 22 Hz (no EQ)
FREQUENCY RESPONSE (± 3 dB)	38 Hz - 100 Hz	See individual spec sheet	See individual spec sheet	See individual spec sheet
POWER CAPACITY	300 W	600 W	1200 W	800 W
CROSSOVER FREQUENCY	100 Hz	80 to 150 Hz	80 to 100 Hz	80 to 100 Hz
SENSITIVITY: 1 W, 1 m	100 dB	97 dB (40 - 100 Hz)	101 dB SPL	97 dB (40 - 100 Hz)
NOMINAL IMPEDANCE	8 ohms	8 ohms	4 ohms	8 ohms
LF DRIVER(S)	2042H (18 in)	2241H (18 in)	2 x 2241H (18 in)	2242H (18 in)
DIMENSIONS (H x W x D)	1168 x 651 x 368 mm	999.6 x 647.7 x 450 mm	762 x 1219 x 610 mm	999.6 x 647.7 x 450 mm
	46 x 25.625 x 14.5 in	39 x 25.5 x 17.75 in	30 x 48 x 24 in	39 x 25.5 x 17.75 in
NET WEIGHT (EACH)	51 kg (113 lb)	60 kg (131 lb)	98 kg (216 lb)	63 kg (138 lb)

# Studio Monitors

JBL PROFESSIONAL IS THE PROUD RECIPIENT OF THE 2005 TECHNICAL GRAMMY®  
The National Academy Of Recording Arts and Sciences Presented the  
2005 Technical GRAMMY® Award to JBL Professional for Continual Mastery  
and Innovation in Concert, Studio, Cinema and Broadcast Sound and Monitors  
to Ensure Exacting Standards for the Most Accurate Sonic Experience.



JBL has more experience in designing and building transducers for professional studio monitors than any other company. We not only use the latest engineering and design equipment, but also the most important test device of all, the human ear. We believe in physics, not fads, so while other companies pick parts off somebody else's shelf, we create our components from scratch. And by utilizing 60 years of experience in transducer design, we create the perfect transducer for each system.

In the great tradition of JBL Studio Monitors, we are pleased to offer the LSR6300 Series and the new LSR4300 Series—the latest in transducer and system technology combined with recent breakthroughs in research and development to provide a more accurate studio reference.

The Linear Spatial Reference (LSR) philosophy is based on a set of design goals that carefully control the overall performance of the system in a variety of acoustic spaces. Instead of focusing on a simple measurement such as on-axis frequency response, JBL measures systems in a field 360 degrees around the speaker and engineers the entire system to ensure off-axis response reflected to the mix position is also smooth and accurate. Then JBL goes a step further to overcome problems caused by low frequency room modes which plague mix engineers. A JBL first, the RMC™ Room Mode Correction system is included in the LSR6300 and LSR4300 Series monitors. The RMC system includes everything needed to analyze LF problems and restore accuracy at the mix position.

# key features The LSR Series

- LINEAR SPATIAL REFERENCE DESIGN
- RMC™ ROOM MODE CORRECTION
- MOUNTING POINTS FOR INDUSTRY STANDARD MOUNTING HARDWARE

- BALANCED AND UNBALANCED INPUTS WITH +4 dBu, -10 dBv SENSITIVITY
- EXCELLENT ON- AND OFF-AXIS PERFORMANCE
- HIGH SPL CAPABILITY

The JBL LSR6300 and LSR4300 Series go “beyond accurate” all the way to “stunning” by incorporating features which reduce the effect of problems in the room. We start with JBL transducer and network technologies that provide ultra-flat response and exceptional dynamic range. Then we incorporate features that help to overcome the contributions of the room. So even if you work in a small home studio, you’ll have clear sound at the mix position. All LSR models are engineered for use in the most demanding production environments. With JBL’s LSR6300 Series and the new LSR4300 Series, mixing is a pleasure.

It takes more than an accurate speaker system to have accurate response at the mix position. Problems in the room dramatically color what you hear at the mix position. Walls and corners can affect response. And standing waves at the mix position can lead you to misjudge bass content. As a result, a speaker which measures flat in an anechoic chamber may “tell you a different story” in the room. The key to accuracy is tackling the effect of boundaries, standing waves and reflections. In developing the LSR Series, JBL examined each problem in the environment and created the perfect solution. Even if you work in a small control room, an LSR system will provide smooth accurate response at the mixer’s chair.

### LSR (Linear Spatial Reference Technology)

Much of what you hear at the mix position is reflected—not direct sound. Linear Spatial Reference Technology ensures mid and high frequency response of our speakers is neutral at the mix position. The exact geometry of the waveguide, the interaction of the woofer and tweeter, and the network are designed to provide an accurate listening window of ± 30 degree horizontal, ± 15 degree vertical. As a result, the reflected sound that reaches the mix position is smooth and accurate.

### RMC™ (Room Mode Correction)

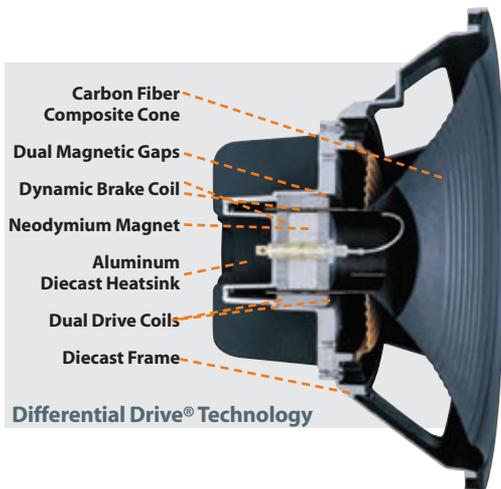
Room modes or standing waves can mislead you give you a false impression of low frequency content in the mix. JBL is first to supply a complete solution for identifying and overcoming the negative effect of room modes. The LSR 6328P, 6312SP and all LSR4300 models are equipped with RMC™, JBL’s ingenious Room Mode Correction System. The LSR6300 RMC Calibration kit includes everything needed to identify room modes and set the LSR6300 series on-board parametric equalizer. JBL engineers took the RMC solution one step further by equipping the LSR4300 Series speakers with an automated analyzer and corrective filter. Both systems dramatically improve low frequency performance at the mix position.

### Built-in Boundary Compensation

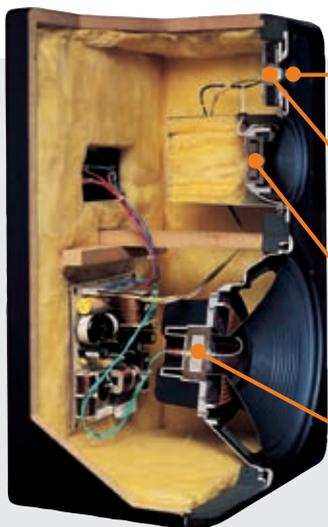
With the advent of multi-channel production, space limitations may compromise the positioning of the speakers. JBL’s powered LSR6300 models include boundary compensation switches and the LSR4300 RMC Systems includes filters to offset the increase in bass response, that occurs when the speaker is placed near a wall, in a corner or on a work surface.

### Stunning Sound

Starting with application-designed and built transducers engineered for extremely accurate response and superb power handling, the stunning sound of the LSR Series Studio Monitors make long mix sessions a pleasure. The LSR6300 line\* incorporates the single most significant advance in monitor history: JBL’s patented Differential Drive Technology. Providing unparalleled performance, the woofer permanently dispels the notion that better linearity, higher power handling and greater dynamic accuracy are somehow unobtainable. JBL’s Differential Drive uses two drive coils with twice the thermal surface area of traditional speakers. As a result, LSR6300 systems provide higher peak output with less spectral shift that causes monitors to sound different when driven at different power levels. All LSR Series speakers withstand the JBL loudspeaker torture test driven at full rated power for over 100 hours. Meeting higher standards than any other loudspeaker manufacturer, JBL’s demanding test ensures that the LSR Studio Monitors give you accurate mixes year after year.



\* (LSR6328P, LSR6332, LSR6312SP)



### LSR6332

#### Elliptical Oblate Spheroidal (EOS) Waveguide

Designed for a targeted listening window of ± 30 degrees horizontally and ± 15 degrees vertically, the EOS provides smooth response through the entire listening window within 1.5 dB of the on-axis response. The result: The listener, even far off-axis, can hear an accurate representation of the on-axis response.

#### Composite High Frequency Device

The 1” magnetically shielded dome high frequency device incorporates titanium and composite materials to improve transient response and reduce distortion. The result: By reducing distortion in the lower operating range where the human ear is most sensitive, listener fatigue is dramatically reduced.

#### 500G Midrange Transducer

The midrange is a 2” neodymium motor with a 5-inch woven Kevlar™ cone. The powerful motor structure was chosen to support the low crossover point to the woofer. In order to achieve the goal of accurate spatial response, the crossover points match the directivity characteristics of the three transducers for optimum spatial response. The result: Absolute pinpoint accuracy.

#### Dynamic Braking

LSR6300 low frequency transducers are equipped with an electromagnetic braking coil that reduces the effects of extreme excursion with high transient material. This causes more linear compliance resulting in lower distortion, more accurate reproduction and increased reliability.



Reinforced mounting points on LSR speakers allow convenient positioning and installation of multi-channel surround systems for any mixing application, in any studio environment.

- ◆ LINEAR SPATIAL REFERENCE DESIGN
- ◆ RMC™ ROOM MODE CORRECTION SYSTEM

- ◆ THX pm3® APPROVED
- ◆ INTEGRATED MOUNTING POINTS

- ◆ PATENTED DIFFERENTIAL DRIVE® TECHNOLOGY

# LSR6300 Series



## LSR6325P-1

The compact **LSR6325P-1** provides exceptional performance for use in applications where accuracy is a must, but space is limited. With a 5.25" high-excursion woofer, 1" damped titanium composite tweeter, and 150 watts of amplification, it outperforms many larger systems. A boundary compensation setting adjusts response when used on workstation surfaces. When used with the LSR6312SP Subwoofer, the LSR6325P-1 is the heart of an exceptionally accurate yet space efficient full-range system.

## LSR6328P

The **LSR6328P** is THE choice for stereo and multi-channel music and post audio applications where accuracy and high SPL are required. With ruler-flat +1 dB/-1.5 dB response from 50 Hz to 20 kHz, low frequency extension to 36 Hz, boundary compensation and JBL's new RMC™ system, the LSR6328P gives you exceptional low frequency performance in any room. The system is bi-amplified with a 250 Watt LF amplifier and a 120 Watt HF amplifier. Based around JBL's patented 8" Differential Drive® carbon-fiber woofer and a 1" titanium composite tweeter, the system produces smooth response and extraordinary SPL. Wall mounting provisions make the LSR6328P perfect for installation in multi-channel editorial rooms.

## LSR6332

If you need a larger monitor with high SPL, for mid-field, soffit or behind the screen applications, the **LSR6332** is your choice. This three-way non-powered system can handle 200 watts continuous pink noise/800 watts peak and will generate 112 dB SPL at 1 meter. The LSR6332 incorporates a 12" neodymium Differential Drive dual coil woofer, 5" Kevlar™ midrange speaker and 1" titanium composite tweeter. The system is exceptionally flat, +1 dB/-1.5 dB from 60 Hz to 22 kHz with LF extension to 35 Hz. User features include a -1 dB HF level setting, and dual 5-way binding posts for bi-wire capability.

## LSR6312SP

The **LSR6312SP** powered subwoofer is based on a 12" woofer with JBL's patented neodymium Differential Drive and 260 watts of power. An integral bass-management system provides all the features you need for today's multi-format surround production including: LCR and Direct LFE inputs, summed output for chaining multiple subwoofers, -4 dB alignment setting, and JBL's new RMC Room Mode Correction system. RMC Calibration Kit included.



### RMC™ (Room Mode Correction) Calibration Kit

The LSR6328P and LSR6312SP Subwoofer are equipped with RMC—JBL's ingenious method of zeroing-out bass problems at the mix position caused by room modes. A built-in 1/10th octave parametric equalizer allows you to correct problems below 100 Hz. The RMC Calibration Kit gives you everything you need to identify problematic room modes and tune your system. The LSR6325P-1 and LSR6332 enjoy the benefits of RMC when used in a system with the LSR6312SP Subwoofer.



LSR6325P-1



LSR6328P



LSR6332



LSR6312SP

## specifications

	LSR6325P-1	LSR6328P	LSR6332	LSR6312SP
FREQUENCY RESPONSE	70 Hz - 20 kHz (+1, -2 dB)	50 Hz - 20 kHz (+1, -1.5 dB)	60 Hz - 22 kHz (+1, -1.5 dB)	28 Hz - 80 Hz (-6 dB)
LOW FREQUENCY EXTENSION	-10 dB : 48 Hz	-10 dB : 36 Hz	-10 dB : 35 Hz	-10 dB : 26 Hz
AMPLIFIER POWER (LF/HF)	100 W/50 W	250 W/120 W		260 W
SPL (CONTINUOUS/PEAK <sup>1</sup> )	106 dB/109 dB	108 dB/111 dB		112 dB/115 dB
LONG-TERM MAXIMUM POWER			200 W cont/800 W peak	200 W cont/800 W peak
DRIVERS (LF, MF, HF)	5.25 in/1 in	8 in/1 in	12 in/5 in/1 in	12 in
SENSITIVITY	96 dB/1m	96 dB/1m	93 dB/2.83V/1 m (90 dB/1 W/1 m)	96 dB/1 W/1 m
SYSTEM IMPEDANCE			4 ohms	
CROSSOVER FREQUENCIES	2.3 kHz	1.7 kHz	250 Hz/2.2 kHz	80 Hz
HF ADJUSTMENT	+1.5 dB/-1.5 dB	+1 dB/-1 dB	-1 dB	
INPUTS	XLR, RCA	XLR, 1/4 in	Dual 5-Way Binding	XLR, 1/4 in
MAGNETIC SHIELDING	Yes	Yes	Yes	Yes
MOUNTING CAPABILITY	Yes	Yes	Yes	Yes
FINISH	Dark Graphite	Dark Graphite	Dark Graphite	Dark Graphite
DIMENSIONS (H x W x D)	269 x 173 x 241 mm (10.6 x 6.8 x 9.5 in)	406 x 330 x 325 mm (16 x 13 x 12.5 in)	635 x 394 x 292 mm (25 x 15.5 x 11.5 in)	394 x 635 x 292 mm (15.5 x 25 x 11.5 in)
NET WEIGHT (each)	7.7 kg (17 lb)	17.7 kg (39 lb)	20.4 kg (45 lb)	22.7 kg (50 lb)

<sup>1</sup> Calculated using average 1 watt/1 meter sensitivity and peak amplifier output.

RMC Calibration Kit Included with LSR6312SP

# key features

## LSR4300 Series

- ① LINEAR SPATIAL REFERENCE DESIGN
- ② AUTOMATED RMC™ ROOM MODE CORRECTION
- ③ SUPPLIED WIRELESS REMOTE CONTROL AND LSR4300 CONTROL CENTER SOFTWARE
- ④ HARMAN HIQNET™ NETWORK FOR SYSTEM CONTROL
- ⑤ MOUNTING POINTS FOR INDUSTRY-STANDARD MOUNTING HARDWARE
- ⑥ EXCEPTIONALLY ACCURATE IN ANY MIX ENVIRONMENT



LSR4326P

LSR4328P

LSR4312SP

Introducing the new JBL LSR4300 Studio Monitors featuring RMC™ Room Mode Correction. The first studio monitors with powerful network intelligence built into each speaker specifically designed to deliver an accurate mix in any room, the LSR4300s are the ultimate monitor for modern production studios. The LSR4300 models feature stunning JBL sound, provide accurate mixes in any workspace, and are priced well within the reach of any studio. The first “self-aware” monitoring system, they’re the ideal choice for music, post, broadcast, stereo and surround sound production.

### ACCURACY

JBL’s next generation automated RMC™ Room Mode Correction system incorporates a powerful analyzer into each speaker that measures and automatically compensates for problems caused by low frequency standing waves and proximity to boundaries. This creates a stunningly clear and articulate sound stage enabling reliable mixes that translate faithfully to the outside world.



System calibration is accomplished by simply plugging the LSR4300 calibration microphone into the speaker and pushing a button.

### CALIBRATION & CONFIGURATION

Truly putting technology to work, system calibration is accomplished by simply plugging the LSR4300 calibration microphone into the speaker and pushing a button. The results are a revolution in professional mixing: a calibrated listening environment where the monitors truly work in harmony with the room. LSR4300 System with Harman HiQnet™ Network allows centralized control of all system settings using the LSR4300 elegant front panel controls, supplied infrared remote control or computer software.

The LSR4300 Series systems can be configured with up to eight main speakers in any desired mix of 6" and 8" models and two subwoofers. The system is automatically aligned so the sound arriving at the mix position from all speakers is balanced even in rooms with space limitations.

### LSR4326P

The **LSR4326P** is a bi-amplified system with 6" woofer and 1" silk-dome tweeter.

### LSR4328P

The **LSR4328P** is a bi-amplified system with 8" woofer and 1" silk-dome tweeter.

### LSR4312SP

The **LSR4312SP** is a 450 watt, powered 12" subwoofer with automated RMC\* and powerful features for stereo and surround sound production including bass management of the L, C, R, LS, RS channels with adjustable crossover points\* plus a dedicated LFE (Low Frequency Effects) inputs.

\*When used in a system with LSR4326P or LSR4328P

## specifications

	LSR4326P	LSR4328P	LSR4312SP	LSR4300 Accessory Kit *
<b>FREQUENCY RESPONSE</b>	± 1.5 dB: 55 Hz – 20 kHz -3 dB: 47 Hz – 22 kHz -10 dB: 39 Hz – 32 kHz	± 1.5 dB: 50 Hz – 20 kHz -3 dB: 43 Hz – 22 kHz -10 dB: 35 Hz – 32 kHz	27 Hz - 250 Hz (-6 dB) -3 dB: 29 Hz -10 dB: 24 Hz	
<b>AMPLIFIER POWER (LF/HF)</b>	150W / 70W	150W / 70W	450W	
<b>SPL (CONTINUOUS/PEAK †)</b>	106 dB / 112 dB	106 dB / 112 dB	116 dB / 125 dB	
<b>DRIVERS (LF/HF)</b>	6.25" 436H / 1" 431 G; Self-Shielded Neodymium Motor Structures	8" 438H / 1" 431 G; Self-Shielded Neodymium Motor Structures	12" 432G; Self-Shielded	
<b>SENSITIVITY (+4 dBV, -10 dBV)</b>	94 dB/1m	94 dB/1m	94 dB/1m	
<b>INPUTS: ANALOG</b>	XLR, 1/4" Balanced, +4 dBV, -10 dBV	XLR, 1/4" Balanced, +4 dBV, -10 dBV	XLR, 1/4" Balanced, +4 dBV, -10 dBV, LFE +10 dB Gain	
<b>DIGITAL</b>	AES/EBU XLR, S/PDIF RCA	AES/EBU XLR, S/PDIF RCA	AES/EBU XLR IN, OUT; S/PDIF RCA IN, OUT	
<b>DIGITAL PROCESSING</b>	24 Bit, 96 kHz	24 Bit, 96 kHz	24 Bit, 96 kHz	
<b>DATA CONNECTIONS</b>	Harman HiQnet™ Network, USB, RMC Mic	Harman HiQnet Network, USB, RMC Mic	Harman HiQnet Network, USB, RMC Mic	
<b>MAGNETIC SHIELDING</b>	Yes	Yes	Yes	
<b>MOUNTING CAPABILITY</b>	Yes	Yes	No	
<b>FINISH</b>	Dark Graphite	Dark Graphite	Dark Graphite	
<b>DIMENSIONS (H x W x D)</b>	387 x 236 x 262 mm (15.25 x 9.3 x 10.3 in)	438 x 267 x 269 mm (17.25 x 10.5 x 10.6 in)	501 x 406 x 495 mm (19.75 x 16 x 19.25 in)	
<b>NET WEIGHT (each)</b>	12.7 kg (28 lb)	13.1 kg (29 lb)	29.5 kg (66 lb)	



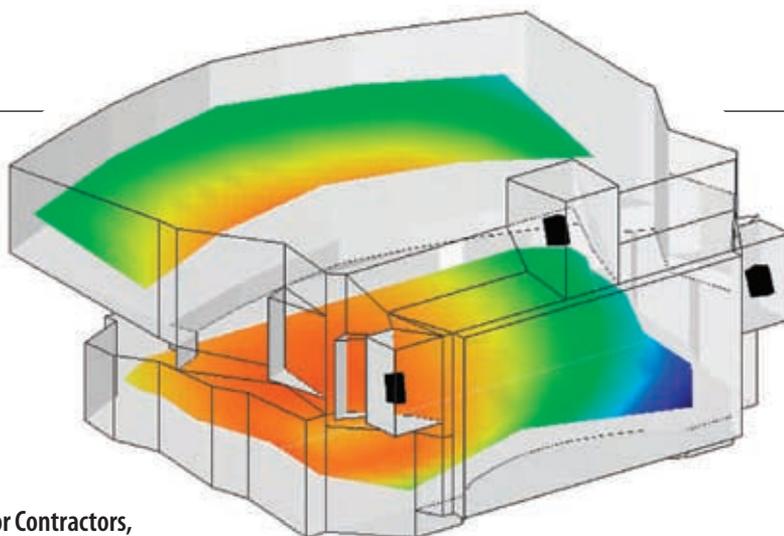
\* Included in the LSR4326P/PAK and LSR4328P/PAK

† Measured using 6dB crest factor pink noise in free space at 1 Meter C weighted



# EASE v4.2

EASE v4.2 is an acoustic simulation software program designed for the Windows operating system that provides sound system designers an invaluable tool for predicting the performance of a sound system in a given venue. The software program is primarily geared toward large-room acoustics (churches, stadiums, arenas, theaters, etc.) and with additions to v4.2 offers valuable tools for smaller environments such as Privacy indexes for office spaces, etc.



It includes numerous acoustical design and analysis tools for Contractors, Engineers and Acoustical Consultants, and with the new Vision module offers greatly improved visual rendering capabilities with the ability to add light sources and import surfaces, making it very desirable for the Architectural world. All features of EASE 4.2 are available as a block, or as partial options. As before, licensing is effected by means of a License Key; however, contrary to the procedure known from version 4.0, this can be obtained directly via the Internet immediately after installation of the program. Program updates can be downloaded directly from the Internet, as well.

## Special features of EASE 4.2 for Windows:

- Enhanced user-friendly windows for menus and working surfaces allow direct access to the various program modules and program parameters
- Ample Speaker Data format of 5 Degrees and 1/3-Octave resolution, higher resolutions of up to 1 Degree and 1/24-Octave bandwidth can be stored in DLLs and used for calculations
- Introduction of complex Speaker Data including magnitude and phase, direct reading of measured impulse responses in all common measuring-file formats (TEF20, MLSSA, WAVE, MF)
- Provision of Speaker-DLLs for Line-Arrays
- Cluster calculation modules for speaker assemblies for far-field applications, DLLs for near-field and far-field calculations
- Data format of wall materials expanded to include diffusion coefficient
- Improved and simplified entering of room data, no limitation of model components, newly developed DXF import from AutoCAD 3D volume models, and entering of textures
- Simplified Room Modeling thanks to new Tools like expanded Extrude function and Object definition for partial models
- Room Visualization by high-definition rendering technique and with textures
- New Hide Option as 3D Rendering by means of lighting appliances
- New room-acoustical calculating module AURA based on CAESAR (University of Aachen) offers new and expanded tools and indexes not available in v3.0
- 2D and 3D Mapping of all room-acoustical measures according to ISO 3382 with due application of the expanded Wall Material data base (absorption and diffusion)
- New Ray-Tracing options in AURA, like Echogram and AURA-Response
- Better visualization of impulse response computations
- New Predicted Tail computation for obtaining a complete impulse response
- Expanded features of off-line and online (real time) Auralization in EARS
- Real time auralization remains possible without additional hardware and in dual channel operation
- Storage capacity limited only by the actual hardware layout
- EASE Speaker Lab module with GLL device creation for array and cluster modeling, allowing more accurate virtual importing into base.
- All versions can be purchased with 2 licenses (full versions include 5 seats) for reduced cost.

**EASE 4.2 for Windows** is totally compatible with EASE 3.0 and is capable of reading all EASE loud-speaker and project data files and of converting them into the new format. Current EASE 3.0 users will be able to upgrade to version 4.2 for a nominal upgrade charge. A Pentium-III-Processor with 1000 Hz or more is recommended as a minimum not only for meeting the requirements of auralisation. EASE is supplied on CD-ROM and requires at least 128 MB of RAM plus 150 MB of available hard disk space (without database, which requires 100 MB additionally).

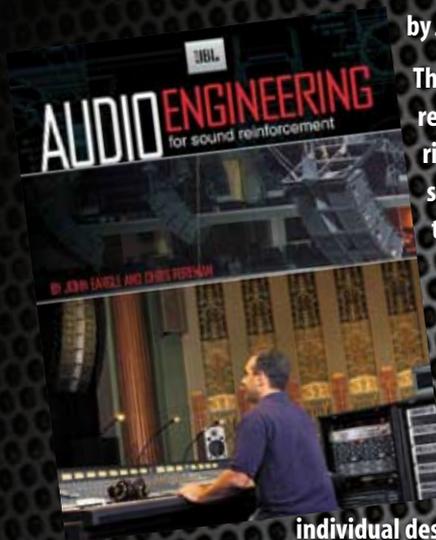
Like Version 4.0, EASE 4.2 is a 32-bit program capable of functioning with the operating systems Windows 98/NT/2000/XP. Windows 95 can no longer be recommended, since it requires special adjustments and Service Packages. All features of EASE 4.0 were included in the new version.

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# JBL AUDIO ENGINEERING FOR SOUND REINFORCEMENT

by John Eargle and Chris Foreman



This book comprehensively covers all aspects of speech and music sound reinforcement. It is divided into four sections: Section 1 provides the tutorial fundamentals that all audio engineers will need, discussing subjects such as fundamentals of acoustics, psychoacoustics, basic electrical theory and digital processing. Section 2 deals with the fundamental classes of hardware that the modern engineer will use, such as loudspeaker systems and components, microphones, mixers, amplifiers and signal processors. Special attention is given to digital techniques for system control and to audio signal analysis. Section 3 deals with the basics of system design, from concept to final realization. It covers topics such as basic system type and speech intelligibility, site survey, user needs analysis and project management. Section 4 discusses individual design areas, such as sports facilities, large-scale tour sound systems, high-level music playback, systems for the theater, religious facilities, and other meeting spaces. The book is written in an accessible style, but does not lack for ample amounts of technical information. JBL and HPro brand products are prominently feature as examples to illustrate the principles and applications. Available at bookstores and on line.

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## JBL LIMITED WARRANTY

The JBL Warranty on professional loudspeaker products (except for enclosures) remains in effect for five years from the date of the first consumer purchase. JBL amplifiers are warranted for three years from the date of the original purchase. Enclosures and all other JBL products are warranted for two years from the date of the original purchase.

Your JBL Warranty protects the original owner and all subsequent owners as long as: A.) Your JBL product has been purchased in the Continental United States, Hawaii or Alaska. (This Warranty does not apply to JBL products purchased elsewhere except for purchases by military outlets. Other purchasers should contact the local JBL distributor for warranty information.) and B.) The original dated bill of sale is presented whenever warranty service is required.

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**JBL Professional**  
8500 Balboa Boulevard  
Northridge, CA 91329 USA  
Visit us online at [www.jblpro.com](http://www.jblpro.com)

**Telephone** (818) 894-8850  
**Domestic Sales Fax** (818) 830-7801  
**International Sales Fax** (818) 830-7802  
**Customer Service Fax** (818) 830-7881

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